SCUBA Survey of Rockfish Assemblages in the Strait of Georgia, July to October 1984

L. J. Richards, J. Paul, A. J. Cass, L. Fitzpatrick,
R. van den Broek, and C. Lauridsen

Department of Fisheries and Oceans
Fisheries Research Branch
Pacific Biological Station
Nanaimo, British Columbia V9R 5K6

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SCUBA SURVEY OF ROCKFISH ASSEMBLAGES IN THE STRAIT OF GEORGIA, JULY TO OCTOBER 1984

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by

L. J. Richards, J. Paul[1], A. J. Cass, L. Fitzpatrick[1],

R. van den Broek, and C. Lauridsen

Department of Fisheries and Oceans

Fisheries Research Branch

Pacific Biological Station

Nanaimo, British Columbia V9R 5K6

[1]MacLaren Plansearch Corp.
1100-1140 W. Pender St.
Vancouver, B.C. V6E 4G1

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ABSTRACT

Richards, L. J., J. Paul, A. J. Cass, L. Fitzpatrick, R. van den Broek, and C. Lauridsen. 1985. SCUBA survey of rockfish assemblages in the Strait of Georgia, July to October 1984. Can. Data Rep. Fish. Aquat. Sci. 545: 91 p.

Observations are summarized from SCUBA surveys conducted between July and October at 17 sites in statistical areas 15 and 16 of the Strait of Georgia. The surveys were designed to obtain visual estimates of density, species composition, and size distribution of near-shore reef-fish populations, and to make related observations on fish behavior and habitat. Ten 50-m horizontal transects were completed at most sites, at depths between 9 and 20 m. Rockfish (Scorpaenidae) and perch (Embiotocidae) accounted for 96% of the fish observed during the survey. Copper rockfish (Sebastes caurinus) was the most abundant species and accounted for 43.9% of the fish observed during July and August and for 60.4% of the fish observed during September and October. Young-of-the-year copper rockfish occurred in schools of up to 900 individuals; 90% of the copper rockfish observed were between 2-5 cm in length. Other important species included quillback rockfish (S. maliger), striped perch (Embiotoca lateralis) and pile perch (Rhacochilus vacca). Raw data on species counts and habitat (including descriptions of the invertebrate fauna) are presented for each transect in this report.

RESUME

Richards, L. J., J. Paul, A. J. Cass, L. Fitzpatrick, R. van den Broek, and C. Lauridsen. 1985. SCUBA survey of rockfish assemblages in the Strait of Georgia, July to October 1984. Can. Data Rep. Fish. Aquat. Sci. 545: 91 p.

On résumé les observations qui ont été faites en plongée autonome entre juillet et octobre en 17 emplacements des secteurs statistiques 15 et 16 du détroit de Georgie. Ces études visaient à obtenir une estimation visuelle de la densité, de la composition des espèces et de la répartition des tailles chez les populations de poisson habitant les récifs situés près des côtes, et à faires des observations connexes sur le comportement et l'habitat des poissons. On a réalisé dix transects horizontaux de 50 m dans la plupart des emplacements, à des profondeurs variant de 9 à 20 m. Les scorpènes (Scorpaenidae) et les ditrèmes (Embiotocidae) représentaient 96% des poissons observés au cours de l'étude. Le sébaste cuivré (Sebastes caurinus) était l'espèce la plus abondante, représentant 43.9% des poissons observés en juillet et en août et 60.4% de ceux observés en septembre et en octobre. Les jeunes sébastes cuivrés de l'année étaient regroupés en bancs pouvant comprendre jusqu'à 900 individus; 90% des sébastes cuivrés observés mesuraient de 2 à 5 cm. Les autres espèces importantes étaient le sébaste à dos épineus (S. maliger), le ditrème rayé (Embiotoca lateralis) et la perche de pilotis (Rhacochilus vacca). On présente dans ce rapport les données brutes sur le dénombrement et l'habitat des espèces (y compris une description des espèces d'invertébrés) pour chaque transect.

INTRODUCTION

This report summarizes observations from SCUBA surveys conducted between July and October 1984 in statistical areas 15 and 16 of the Strait of Georgia. The purpose of the surveys was to obtain visual estimates of density, species composition and size distribution of near-shore reef-fish populations, and to make related observations on fish behavior and habitat. Emphasis was placed on reef-fish species that were important to the recreational fishery, in particular rockfish, lingcod and kelp greenling. The survey formed part of a research program on stock assessment of these species. Research hook-and-line fishing was conducted at the same sites during 1984 (Richards et al. 1985). Hence, catch per unit effort (CPUE) and the species composition and size distribution of the catch could be compared to the densities, species composition and size distributions observed by SCUBA. In addition, visual estimates of density, species composition and size distributions were obtained below SCUBA range (20 m) at most of the SCUBA sites from the submersible PISCES IV during 1984 (Richards and Cass 1985).

The SCUBA survey was divided into two parts. A preliminary survey with divers R. van den Broek, A. J. Cass, and L. J. Richards was conducted between 24 July - 2 August 1984. After some improvements in methodology, a second survey was contracted to MacLaren Plansearch Corp. The contract survey with divers J. Paul and L. Fitzpatrick was conducted between 10-21 September and 16-25 October 1984. Six sites in the Pender Harbour-Secret Cove area were included in the preliminary survey. Five additional sites and one repeat site in the Pender Harbour area, and six sites in the Desolation Sound area were included in the contract survey. All but one of the contract dive sites had been surveyed by PISCES IV (Richards and Cass 1985). Descriptions of the benthic habitats at the dive sites and raw data on fish species counts and size distributions are presented in this report.

METHODS

Survey sites (Fig. 1) were chosen from the sites described by Richards et al. (1985). Each site was defined as a 1'N lat. by 1'W long. area. Dive locations within the site were chose arbitrarily for the preliminary survey and randomly for the contract survey (Fig. 2), by locating co-ordinates of a grid superimposed on the area from a random numbers table. Generally, ten locations were selected for each site, divided between two depth strata: (1) 9-13 m and (2) 14-18 m. A dive location was rejected and replaced if the bottom terrain consisted of only mud or sand, as these locations tended to be devoid of recreationally important fish. Three dive locations were rejected on this basis during the contract survey.

Survey data were collected by two divers along 50 m transects at each dive location. Upon arrival at the dive location, divers descended to the predetermined depth that marked the starting point of the transect.

During the contract survey, a salinity sample and temperature reading were taken at this time. One diver then began to unravel the transect tape while the second diver swam along the line and recorded fish and habitat data onto a plastic slate. Additional notes on invertebrate and algal species were recorded on the return trip along the transect as the tape was rewound. A constant depth was maintained for each transect. Replicate transects at a site were conducted on at least three different days.

Transect width depended on visibility. Visibility was estimated with a round disc, 23 cm in diameter, with six 4-cm wide bands of alternating black and brown. (Bands of the disc used in the preliminary survey were 2.5-cm wide.) At the end of each transect, the diver responsible for fish counts swam away from the other diver who held the disc, and measured the horizontal distance at the point where the bands could no longer be distinguished. The colors of the disc were chosen to represent a quillback rockfish, and so the measured distance estimated the maximum distance at which a stationary rockfish could be distinguished by the diver. Twice this distance was chosen as an estimate of transect width.

Fish counts included all rockfish, greenling, lingcod, large sculpins, perch, dogfish, and ratfish. The divers searched for all fish hidden in crevices, under rocks, or under macroalgae, as far as possible without deviating from the set transect line. Small, cryptic species such as gobies, flatfish and most sculpins were excluded because of the difficulty in obtaining representative counts.

Size (fork length) was estimated for all rockfish, lingcod, and greenling. Size was determined by comparison with a lined rule attached to the slate. Divers received some training prior to the survey in underwater size estimation. Estimates were believed accurate to about 10%. Fish were grouped into 5-cm length classes prior to analysis.

Transects were divided according to predefined habitat types (Table 1). Fish counts and descriptions of invertebrates and macroalgae were recorded separately for each habitat type along a transect, with the transect length of that habitat type. Percent cover was estimated for the macroalgae (Table 1). At the time of the contract survey, several of the macroalgae were showing signs of pre-winter erosion. As some species could not be readily identified in their eroded condition, emphasis was placed on species that were present throughout the year.

Additional data were included for the contract survey. Surface weather conditions (Table 1) were noted prior to each dive. Temperature ($\pm$0.5°C) was recorded at the beginning of each transect and a salinity sample was taken. Additional measurements of habitat type included slope ($\pm$5° from horizontal), relief, sediment type and a check list of invertebrate species. Relief was an index of bottom irregularity of rock and invertebrate growth, measured on a scale of one (smooth) to five (highly irregular), adapted from Larson (1980). Sediment type was described by a three-digit code that represented three types listed in decreasing order of dominance (Table 1). For the check list, invertebrates were recorded as present if at least one individual of that species was observed within a 1-m band on either side of the transect line.

RESULTS AND DISCUSSION

SITE DESCRIPTIONS

A total of 50 transects were completed at the six sites during the preliminary survey, and 120 transects were completed at the 12 sites during the contract survey.

General features of the benthic habitats at the dive sites are summarized by the following descriptions. Specific data for each transect are presented in Tables 2-6.

Preliminary survey sites

Halfmoon Bay - Site 16-132. This site was characterized by a sculptured rock wall that dropped to a sand bottom at a depth of about 12 m. The transition between wall and sand increased in depth towards the mouth of the bay. The anemone Pachycerianthus fimbriatus and the crab Cancer magister were present on the sand bottom, but no fish were observed there. Only seven transects were completed at this site because suitable transect locations could not be found in deeper areas. The rock wall had ledges and a few boulders. Agarum formed 30-80% cover. Houses were located nearby, and there was probably moderate fishing pressure at this site.

Secret Cove - Site 16-124. Dives were located along the shoreline and near the top of a shallow reef. The reef locations had a terrain of boulders and broken rock on a sand/shell substrate, with a complete cover of drift Agarum. The shoreline dives were on a slope of boulders, broken rock and gravel with patches of sand interspersed. This resulted in high relief at some locations.

Bjerre Shoal - Site 16-232. All dives were located at the south end of the shoal. There were two major habitat types present - boulders and gravel on a sand base, and a less complex habitat of sand and gravel. The Agarum cover was almost 100% at some locations. We observed geoduck boats working the middle of the shoal, and 50-100 sports boats trolling for salmon off the edge of the shoal.

Acland Rock - Site 16-227. Dives were located on Acland Rock and on the south side of Nelson Island between Cape Cockburn and Quarry Bay. The Acland Rock dives were on a flat cobble terrain with a few boulders and a variable Agarum cover. The shoreline dives in one area were on a 30° slope of sand and gravel and on a 30° broken rock slope. Agarum was present as spaced strands. In another area there was a creviced bedrock wall with some boulders, that was replaced by a shell substrate near 15 m.

Agamemnon Channel - Site 16-201. Dives were located on both sides of the channel. This site was characterized by a sheer bedrock wall with occasional ledges or crevices. Rockfalls of broken rock were interspersed along the wall to form a complex habitat. Agarum was present between 9-15 m and formed up to

100% cover at some locations. Vase sponges were observed below 18 m.

Preliminary and contract surveys

Temple Rock - Site 16-234. Temple Rock is a submerged reef 10 m below the surface. The reef consisted of rock pinnacles of up to 10 m in height, separated by a complex habitat of broken rock and boulders. The sides of the pinnacles formed a smooth bedrock wall with a few ledges. High densities of quillback and copper rockfish were recorded on most transects. Diverse and abundant populations of sponges, tunicates, molluscs and starfish were present. The algal community was comprised of a dense cover (60-80%) of Agarum (1-2 m in length) to a depth of 15 m. Below 15 m Agarum cover was less than 10%, with encrusting red algae covering most of the substrate. All transects completed during the preliminary survey were at a depth of 15 m.

Contract survey

Partington Point, Texada Island - Site 16-102. Dives at this site were located on an exposed bedrock wall (slope 60-80°) with ledges and crevices, and in a protected bay (slope 30°) with a cobble/shell-sand substrate. A diverse algal community consisting of Agarum fimbriatum, Laminaria saccharina and L. groenlandica provided dense cover (85-95%) in the shallow areas. By October, the kelp had eroded to 40-50% cover. Foliose, encrusting and coralline red algae were also present. Bryozoans, ecrusting red algae and brown algal debris covered the bedrock wall below the edge of the kelp band at approximately 15 m. Vase sponges were abundant below 12 m and quillback rockfish were associated with these sponges. Schools of juvenile copper rockfish were present in shallow areas.

Texada Island, Southwest Side - Site 16-113. Dives were located on a sheer bedrock wall and in a protected bay (slope 15-20°) with a terrain of gravel, cobble and boulders on a sand base. Sponges, bryozoans and encrusting red algae were dominant on the bedrock wall with Ulva, A. fimbriatum and foliose red algae forming 40% cover in the shallow areas. A. fimbriatum, L. groenlandica, L. saccharina and filamentous and foliose red algae were patchily distributed in the bay. Algal cover varied from less than 5% at a depth of 15 m, to about 85% cover in shallower areas.

Texada Island, Southeast Side - Site 16-73. The habitat throughout this site consisted of terraced bedrock and outcroppings of broken rock and boulders. The algal community was diverse; it was dominated by A. fimbriatum, L. saccharina, L. groenlandica, Nereocystis, several species of foliose red algae including Constantinea, and encrusting red algae. There was a 70-80% kelp cover at all depths. Quillback and copper rockfish were abundant, and a diverse invertebrate community was present.

Strawberry Islets - Site 16-223. Broken rock, boulders and creviced bedrock formed a complex habitat at this site. Adult and juvenile copper rockfish and several embiotocids were observed on most transects. There was a diverse community of kelps including A. fimbriatum, L. saccharina and L. groenlandica, varying in cover from 20-80% above 15 m. Foliose and encrusting red algae were also present. The invertebrate community was diverse and abundant at shallow depths.

Hardy Island - Site 16-216. Dives were located on a 60-70° bedrock wall with some ledges and broken rock. At the shallowest depth surveyed A. fimbriatum covered 60% of the substrate. Algal cover decreased with depth to less than 10% cover at 12 m. Cloud and vase sponges were observed as shallow as 12 m. The invertebrate community was diverse, but not abundant; the bedrock was largely barren of macro-invertebrates. Quillback and copper rockfish were associated with large sponges.

Major and Copeland Islands - Site 15-121. This site had a mixture of gradually sloping (15-45°) cobble and shell-sand habitats and steeper (45-80°) creviced bedrock, broken rock and boulder habitats. A dense band (80-100% cover) of A. fimbriatum and foliose and filamentous red algae was found to a depth of 12 m in the boulder habitat. Algal cover decreased to 20% between 12 and 15 m. Invertebrates, especially gastropods and vase sponges, were abundant in the boulder habitat. Few invertebrates were observed in the gradually sloping habitat. Copper rockfish were abundant in the A. fimbriatum band, and quillback rockfish and kelp greenling were abundant below the band.

Twin Islands - Site 15-88. The terrain was formed by a 30-70° creviced bedrock slope with broken rock and boulder outcroppings. The algal community consisted of A. fimbriatum, L. saccharina, L. groenlandica and several foliose red algae. Cover varied from 80% in the shallower areas to 10% at a depth of 15 m. Below 15 m only a few A. fimbriatum strands and small foliose red algae were found. Encrusting red algae occurred at all depths. Invertebrate populations were more abundant along the northeast side of Twin Islands. Several octopus dens were also found there.

Tenedos Bay - Site 15-60. Dives were located on a steep bedrock wall and in broken rock and cobble habitats. A. fimbriatum cover varied from 15-40% above a depth of 12 m. Encrusting red algae were also present. Below the A. fimbriatum band only a few encrusting red algae and brown algal debris were found on the substrate. Invertebrates were in low abundance. A shallow reef in Tenedos Bay had a more diverse algal and invertebrate community. A. fimbriatum, L. saccharina and several foliose and encrusting red algae formed 50% cover. Dogfish were abundant in this bay, especially along the southeast side, where a school of approximately 200 dogfish followed the divers.

Mink Island - Site 15-56. The habitat at this site was predominantly bedrock wall with ledges and a few outcroppings of broken rock. A. fimbriatum, L. saccharina and foliose red algae formed a moderate to dense cover (40-80%) to a depth of about 10 m. Encrusting and coralline red algae were also present. Below 13 m few kelps were observed; encrusting red algae and brown algal debris were found on the wall. Vase and cloud sponges were the major invertebrates observed below the A. fimbriatum band. On three transects, areas of cobble and shell sand were interspersed along the wall. Only a few kelps (<20% cover) grew on this substrate. The dominant invertebrate in this habitat was the tube-dwelling anemone (Pachycerianthus fimbriatus).

Junction Point - Site 15-27. Complex habitat at this site was formed by terraced bedrock and outcroppings of broken rock and cobble. The algal community was dominated by A. fimbriatum and L. saccharina. Several species of foliose and filamentous red algae were also present. Below 12 m, A. fimbriatum became sparse (<15% cover) and L. saccharina was absent. Brown

algal debris was found below the A. fimbriatum band. Encrusting and coralline red algae covered rocks at all depths. Invertebrates were diverse and abundant.

Teakearne Arm - Site 15-6. The terrain was formed by a terraced bedrock wall with occasional rock outcroppings. Cover of A. fimbriatum and foliose red algae varied from almost 100% at a depth of 6 m, to 15-20% cover at the lower fringe of the band near 12 m. Below a depth of 12 m the substrate was covered by brown algal debris. Invertebrates were sparse below the A. fimbriatum, band and vase sponges were the dominant species. Rockfish were not abundant at this site. Logs and bark chips, evidence of log booming activity, were observed on the surface and on the subtidal terrain.

OBSERVATIONS ON FISH

Fish counts were dominated by species in three families: Embiotocidae, Scorpaenidae, and Hexagrammidae (Table 3). These families accounted for 40.9%, 55.2%, and 3.9% respectively of the fish recorded during the preliminary survey, and for 23.6%, 72.2% and 2.0% respectively of the fish recorded during the contract survey. Species from other families generally recorded in low abundance were dogfish, ratfish, wolf-eel, red-Irish lord, and C-O sole (see Table 3 for species names). Large numbers of dogfish were recorded during the five October transects at Tenedos Bay (Site 15-60), when a total of 322 were counted, 85.0% of the total observed during both surveys.

The family Embiotocidae was represented by four species: kelp perch, shiner perch, striped perch and pile perch. These species were usually observed in schools near the surface during shallow transects. Count accuracy was probably the lowest for this group as a result of their pelagic and schooling behavior, compared to the demersal and solitary behavior of most other species counted. The schools occasionally followed the divers and double counts may have occurred. Kelp perch and shiner perch were sporadically distributed. A school of 1500 shiner perch was observed during a transect at Partington Point (Site 16-102). This was the largest school recorded for any species and accounted for 60% of the observed shiner perch. Striped perch and pile perch were observed in mixed schools at most sites, with either species dominant. Both were absent from Bjerre Shoal (Site 16-242) and striped perch were absent from Temple Rock (Site 16-234), perhaps because these were reef areas without associated shallow habitats.

The family Scorpaenidae was represented by five species: copper rockfish, yellowtail rockfish, quillback rockfish, tiger rockfish, and yelloweye rockfish. Copper rockfish was the single most abundant species and accounted for 43.9% of the observed number of fish on the preliminary survey and for 60.4% on the contract survey. Quillback rockfish was also a major species and accounted for 11.1% and 11.4% of the observed fish on the preliminary and contract surveys respectively. Only two yellowtail rockfish, a pelagic species, were observed, at a depth of 15 m at Mink Island (Site 15-56). Tiger rockfish and juvenile yelloweye rockfish (<16 cm, see Table 4) were counted in small numbers. As they were usually hidden in crevices in

high relief habitats, these species could have been missed by divers and counts probably underestimated true abundances.

Young-of-the-year copper rockfish were present during the surveys as 2- to 4-cm fish. They tended to be associated with kelp (Agarum and Laminaria) and were usually found in schools of 10 or more individuals. The largest school, with an estimated 900 2-cm fish, was observed in cobble habitat at southwest Texada Island (Site 16-113, transect 3). The number and size of the schools decreased between the site visits in September and October, as the recruits developed a more demersal and solitary behavior. Overall, 2- to 5-cm fish accounted for 77.6% of the copper rockfish observed during the preliminary survey and for 91.1% during the contract survey (Table 4). However, the transect methods were designed for larger fish, and counts were probably inaccurate for young-of-the-year rockfish. During the preliminary survey we noticed that young-of-the-year copper rockfish were obscured by the Agarum cover.

Young-of-the-year quillback rockfish were also observed during the surveys. As it was difficult to distinguish quillback from copper rockfish below a size of 4 cm, the abundance of quillback rockfish recruits may have been underestimated. At Acland Rock (Site 16-227, transect 4) 5- to 8-cm quillback rockfish were observed in small groups of 3-23 individuals just above the Agarum cover. During the contract survey, juvenile quillback rockfish were always solitary and they had probably developed a more demersal behavior by that time. Single 4- to 7-cm quillback rockfish were often observed inside or resting on top of vase and cloud sponges found on bedrock walls. Quillback rockfish were most abundant in the 6- to 10-cm size class during both surveys.

Copper rockfish and quillback rockfish tended to segregate by depth, with copper rockfish dominant in shallow areas and quillback rockfish dominant below the Agarum band. Quillback rockfish were especially abundant in deeper areas of high relief habitats such as Temple Rock (Site 16-234).

The family Hexagrammidae was represented by four species: lingcod, kelp greenling, painted greenling, and white-spotted greenling. Painted greenling were observed in low abundance and only one white-spotted greenling was observed, at Agamemnon Channel (Site 16-201). Lingcod and kelp greenling were usually found resting on bedrock ledges or boulders below a depth of 10 m. Unlike the rockfish, they were wary of divers and would swim away as the diver approached. Most of the observed lingcod were less than 40 cm in length; the largest lingcod was 80 cm, recorded during the preliminary survey at Secret Cove (Site 16-124).

ACCURACY OF THE TRANSECT METHODS

Visual counts are known to provide a biased estimate of the size of fish populations (Sale and Douglas 1981; Brock 1982). We chose a line transect of variable width as the survey method as (1) abundances were relatively low at most sites and it was preferable to cover as large an area as possible, (2) counts could be converted to densities, and (3) it was not

important to count small and cryptic species (except juvenile rockfish). In high relief habitats and at sites of high rockfish abundance such as Temple Rock (Site 16-234), a line transect of fixed width may be a more appropriate survey method. A fixed width would enable divers to more thoroughly search a defined area. Other techniques will be required to improve the accuracy of juvenile rockfish and perch counts.

Another source of error in the survey was in the estimation of fish size. The size distribution of copper rockfish and quillback rockfish differed between the preliminary and contract surveys. Fish 20 cm in length were virtually absent from the contract survey but accounted for 10.0% of the copper rockfish observed during the preliminary survey (Table 4). Larger fish may have moved out of the areas accessible by SCUBA during the time interval between the surveys. However, some of the discrepancy was probably due to differences in size estimation among divers.

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Table 1. Descriptions of the codes used in the following tables for tidal phase, algae, sediment type, habitat type, surface weather conditions and general remarks.

Code	Description
tidal phase	hours from low slack on a scale of -5 to +6 with 0 as low slack and +6 as high slack
algae	01 <5% macroalgae 02 100% cover of blade algae or drift 03 >10% Agarum cover 04 >10% macroreds 05 >10% cover of green, red, brown mix
sediment	three digit number in order of dominance 1 sand 2 shell 3 sand/shell 4 gravel (<16 mm) 5 pebbles (16-64 mm) 6 cobbles (64-250 mm) 7 boulders (250-500 mm) 8 broken rock (>500 mm) 9 bedrock
habitat type	10 fine sediment - sand/shell 20 predominantly fine sediment with scattered rocks or rock outcroppings 30 predominantly cobble with perhaps larger rocks, probably on shell base 40 broken rock/boulder forming complex habitat, or highly creviced area of wall 50 bedrock wall <25 m high with ledges, outcroppings or boulders, probably dropping to a sand or mud slope 60 bedrock slope (<60°), generally smooth, as near the top of a reef 70 bedrock wall >25 m high
surface weather conditions - two digit code	first digit: 1 calm; 2 ripple; 3 chop - 0.5 m; 4 chop - 1.0 m; 5 chop - 1.5 m; 6 chop - 2.0 m; 7 low swell second digit: 1 clear; 2 partially clear; 3 cloudy; 4 rain

Table 1 (cont'd)

Code	Description
remarks	01 no fish
	02 estimates on schools
	03 strong current
	04 weak current
	05 wall covered with sponges/bryozoans
	06 diverse algal community
	07 school of smelt-like fish midwater
	08 just below Agarum bed
	09 brown filamentous algae covering rocks
	10 bark chips dominant sediment
	11 sand bottom at 15 m

Table 2a. Site number, transect number for that site, dive number, date (yr mo da), dive depth (m), start time, visibility (m), transect length (m), habitat length (m), habitat type, remarks code, algae code and tidal phase for the preliminary survey. There is one line in the table for each habitat type observed on a transect. Codes for habitat type, remarks, algae and tidal phase are described in Table 1.

SITE	TR	DIV	DATE	DEP	TIME	VIS	TRNL	HABL	TY	RE	AL	TD
160124	1	4	840724	15	1508	2.0	50.0	50.0	40		2	+5
160124	2	5	840724	9	1508	1.2	50.0	50.0	40		2	+5
160124	3	10	840725	15	1455	1.9	50.0	7.8	60		3	+4
160124	3	10	840725	15	1455	1.9	50.0	42.2	30		3	+4
160124	4	11	840725	15	1455	2.8	50.0	50.0	30		3	+4
160124	5	12	840725	9	1455	2.5	50.0	50.0	30	3	3	+4
160124	6	13	840726	13	852	1.9	50.0	50.0	30		3	-2
160124	7	14	840726	15	852	2.3	50.0	3.0	30	1	3	-2
160124	7	14	840726	15	852	2.3	50.0	47.0	50		1	-2
160124	8	15	840726	9	852	1.6	50.0	50.0	30		3	-2
160124	9	16	840726	9	1000	1.7	50.0	50.0	30		3	-1
160124	10	17	840726	9	1000	2.9	50.0	50.0	40		3	-1
160132	1	1	840724	9	1025	3.2	50.0	50.0	50		1	+1
160132	2	2	840724	15	1025	1.8	50.0	50.0	10	1	1	+1
160132	3	3	840724	9	1125	2.5	50.0	50.0	50	2	3	+2
160132	4	6	840725	8	1000	2.3	50.0	50.0	30		2	00
160132	5	7	840725	8	1000	1.1	50.0	50.0	30	2	2	00
160132	6	8	840725	9	1053	3.2	50.0	23.8	60		3	+1
160132	6	8	840725	9	1053	3.2	50.0	26.2	30		3	+1
160132	7	9	840725	9	1053	1.5	50.0	5.5	60		3	+1
160132	7	9	840725	9	1053	1.5	50.0	44.5	30		3	+1
160201	1	35	840731	15	1015	3.8	50.0	35.0	70		1	-3
160201	2	35	840731	15	1015	3.8	50.0	15.0	40		3	-3
160201	2	36	840731	15	1015	3.7	50.0	50.0	70		1	-3
160201	3	40	840801	15	946	4.2	50.0	50.0	70	2	1	-5
160201	4	41	840801	15	946	6.6	50.0	22.7	70	2	3	-5
160201	4	41	840801	15	946	6.6	50.0	27.3	40		3	-5
160201	5	42	840801	9	1030	4.0	50.0	24.0	70		3	-2
160201	5	42	840801	9	1030	4.0	50.0	26.0	40		3	-2
160201	6	43	840801	9	1030	1.5	50.0	6.3	40		3	-2
160201	6	43	840801	9	1030	1.5	50.0	43.7	70		3	-2
160201	7	48	840802	9	928	1.3	50.0	22.4	70		3	+6
160201	7	48	840802	9	928	1.3	50.0	27.6	40		3	+6
160201	8	47	840802	15	928	6.0	50.0	50.0	70		1	+6
160201	9	49	840802	9	1015	1.3	50.0	50.0	70		3	+6
160201	10	50	840802	9	1015	1.3	50.0	20.0	70	2	3	+6
160201	10	50	840802	9	1015	1.3	50.0	30.0	40	2	2	+6
160227	1	25	840729	9	1301	7.0	50.0	24.3	20		3	00
160227	1	25	840729	9	1301	7.0	50.0	25.7	30		3	00
160227	2	26	840729	11	1301	6.0	50.0	50.0	20		3	00

Table 2a (cont'd)

SITE	TR	DIV	DATE	DEP	TIME	VIS	TRNL	HABL	TY	RE	AL	TD
160227	3	27	840729	14	1421	7.2	50.0	50.0	20		3	+1
160227	4	28	840729	13	1421	7.6	50.0	50.0	20		3	+1
160227	5	29	840730	15	1023	6.7	50.0	50.0	30		3	-3
160227	6	30	840730	15	1023	7.0	50.0	23.6	30		4	-3
160227	6	30	840730	15	1023	7.0	50.0	26.4	30		3	-3
160227	7	31	840730	15	1023	4.5	50.0	50.0	30		3	-3
160227	8	32	840730	11	1254	3.7	50.0	50.0	50	2	5	00
160227	9	33	840730	9	1254	3.2	50.0	50.0	50	2	5	00
160227	10	34	840730	9	1254	1.7	50.0	50.0	40	2	5	00
160234	1	37	840731	15	1405	2.7	50.0	50.0	60	2	3	00
160234	2	38	840731	15	1405	6.0	50.0	7.7	60		3	00
160234	2	38	840731	15	1405	6.0	50.0	20.6	60		1	00
160234	2	38	840731	15	1405	6.0	50.0	21.7	40		1	00
160234	3	39	840731	15	1405	3.8	25.0	25.0	30		1	00
160234	4	44	840801	15	1436	3.8	50.0	22.8	60		3	00
160234	4	44	840801	15	1436	6.0	50.0	27.2	40		3	00
160234	5	45	840801	15	1436	3.8	50.0	25.0	60	1	1	00
160234	5	45	840801	15	1436	6.0	50.0	25.0	30		3	00
160234	6	46	840801	15	1436	6.0	21.0	21.0	30		3	00
160242	1	18	840728	9	1546	2.5	50.0	50.0	30		2	+4
160242	2	19	840728	9	1546	2.0	50.0	50.0	30		2	+4
160242	3	20	840728	10	1655	2.0	50.0	50.0	30		3	+5
160242	4	21	840728	12	1655	2.0	50.0	50.0	30		3	+5
160242	5	22	840729	10	1035	3.9	50.0	3.6	20	1	3	-2
160242	5	22	840729	10	1035	3.9	50.0	46.4	30		2	-2
160242	6	23	840729	10	1035	5.1	50.0	21.1	20	1	3	-2
160242	6	23	840729	10	1035	5.1	50.0	28.9	30		2	-2
160242	7	24	840729	12	1035	3.1	50.0	25.0	20		3	-2
160242	7	24	840729	12	1035	3.1	50.0	25.0	30	1	2	-2

Table 2b. Site number, transect number for the site, dive number, date (yr mo da), dive depth (m), start time, visibility (m), habitat length (m), habitat type, relief index, slope (°), sediment type, algae code, remarks code, temperature (°C), tidal phase and surface weather conditions for contract survey data. There is one line in the table for each habitat type observed on a transect. Codes for habitat type, sediment, algae, remarks, tidal phase and surface weather conditions are described in Table 1.

SITE	TR	DIV	DATE	DEP	TIME	VIS	TRNL	HABL	TY	R	SLO	SED	AL	RE	TEMP	TD	SF
150006	1	21	840913	15	1127	16.4	50.0	50.0	70	1	85	900	1			-3	11
150006	2	22	840913	14	1154	8.3	50.0	50.0	70	2	60	983	3	2		-4	11
150006	3	23	840913	11	1254	16.9	50.0	19.5	70	2	80	930	3	7		-5	11
150006	3	23	840913	11	1254	16.9	50.0	30.5	40	3	45	730	3	2		-5	11
150006	4	24	840913	9	1319	4.4	50.0	50.0	40	3	60	837	3			-5	11
150006	5	25	840913	9	1343	6.5	50.0	50.0	40	4	60	730	3	2		00	11
150006	6	113	841024	15	1300	6.8	50.0	50.0	70	2	60	930	1	5	10.0	+1	14
150006	7	114	841024	15	1322	9.2	50.0	8.0	70	2	70	930	1		10.0	+1	14
150006	7	114	841024	15	1322	9.2	50.0	42.0	40	3	40	938	3	2	10.0	+1	14
150006	8	115	841025	18	1006	9.5	50.0	24.5	70	2	70	930	1	15	10.0	-3	11
150006	8	115	841025	18	1006	9.5	50.0	25.5	40	4	60	839	1	9	10.0	-3	11
150006	9	116	841025	18	1031	9.5	50.0	50.0	70	2	60	930	1	9	10.0	-4	11
150006	10	117	841025	15	1055	8.5	50.0	20.5	40	3	30	837	3	16	10.0	-4	11
150006	10	117	841025	15	1055	8.5	50.0	29.5	60	1	30	930	3	9	10.0	-4	11
150027	1	16	840912	12	1250	10.9	50.0	50.0	50	2	80	930	3	2		-5	23
150027	2	17	840912	10	1320	8.4	50.0	16.0	20	2	40	178	3			00	23
150027	2	17	840912	10	1320	8.4	50.0	34.0	20	2	15	160	3			00	23
150027	3	18	840911	9	1345	6.3	50.0	5.5	10	1	10	100	1	10		00	11
150027	3	18	840911	9	1345	6.3	50.0	44.5	40	4	45	873	3	2		00	11
150027	4	19	840913	23	859	13.8	50.0	10.0	40	3	60	683	1			-1	11
150027	4	19	840913	23	859	13.8	50.0	40.0	50	1	80	910	1	2		-1	11
150027	5	20	840913	20	930	15.8	50.0	50.0	40	3	30	869	1			-2	11
150027	6	111	841024	15	1109	6.5	50.0	50.0	50	2	60	983	1	9	10.0	-2	14
150027	7	112	841024	15	1132	8.1	50.0	6.0	40	3	45	983	0	9	10.0	00	14
150027	7	112	841024	15	1132	8.1	50.0	6.0	40	3	45	983	3	9	10.0	00	14
150027	7	112	841024	15	1132	8.1	50.0	44.0	20	2	20	265	3		10.0	00	14
150027	8	118	841025	15	1143	9.8	50.0	50.0	40	3	30	897	3	2	10.0	-5	23
150027	9	119	841025	11	1216	7.8	50.0	21.0	30	2	15	634	3		11.0	-5	23
150027	9	119	841025	11	1216	7.8	50.0	29.0	60	2	15	983	3	2	11.0	-5	23
150027	10	120	841025	11	1236	6.1	50.0	13.6	10	1	20	10	1		11.0	-6	23
150027	10	120	841025	11	1236	6.1	50.0	36.4	60	2	45	938	3		11.0	-6	23
150056	1	6	840911	20	826	15.0	50.0	4.2	20	2	75	390	1	1		-1	23
150056	1	6	840911	20	826	15.0	50.0	45.8	50	2	75	930	1	2		-1	23
150056	2	7	840911	20	857	15.5	50.0	50.0	50	2	75	983	1	2		-2	13
150056	3	8	840911	15	1044	12.8	50.0	5.0	30	2	75	638	3			-4	13
150056	3	8	840911	15	1044	12.8	50.0	45.0	50	2	75	980	3	2		-4	13
150056	4	9	840911	15	1117	16.3	50.0	8.0	10	1	75	300	1	2		-4	13
150056	4	9	840911	15	1117	16.3	50.0	42.0	50	2	75	910	3			-4	13
150056	5	10	840911	9	1147	6.1	50.0	6.5	30	1	45	300	1	2		-5	13

Table 2b (cont'd)

SITE	TR	DIV	DATE	DEP	TIME	VIS	TRNL	HABL	TY	R	SLO	SED	AL	RE	TEMP	TD	SF
150056	5	10	840911	9	1147	6.1	50.0	43.5	50	2	80	910	3			-5	13
150056	6	99	841022	15	1109	10.3	50.0	25.0	40	3	60	873	1	9	10.0	+1	11
150056	6	99	841022	15	1109	10.3	50.0	25.0	50	2	80	930	1	15	10.0	+1	11
150056	7	100	841022	15	1139	10.0	50.0	50.0	50	2	70	938	1		11.0	+1	11
150056	8	106	841023	12	1130	10.8	50.0	20.0	40	3	45	983	3	2	11.0	00	14
150056	8	106	841023	12	1130	10.8	50.0	20.0	50	3	45	983	3	2	11.0	00	14
150056	8	106	841023	12	1130	10.8	50.0	30.0	50	2	70	930	3	17	11.0	00	14
150056	9	107	841023	12	1154	8.9	50.0	50.0	50	2	80	930	3	4	11.0	+1	14
150056	10	108	841023	11	1220	9.7	50.0	11.5	50	2	60	893	3		11.0	+1	14
150056	10	108	841023	11	1220	9.7	50.0	38.5	40	4	30	897	3	17	11.0	+1	14
150060	1	11	840911	10	1316	9.3	50.0	50.0	40	4	80	971	3	2		00	13
150060	2	12	840911	9	1350	9.6	50.0	50.0	40	3	60	810	3	2		00	13
150060	3	13	840912	20	941	15.4	50.0	50.0	50	2	60	980	1	2		-2	23
150060	4	14	840912	20	1014	15.0	50.0	22.6	50	2	60	963	1	2		-2	23
150060	4	14	840912	20	1014	15.0	50.0	27.4	30	2	60	610	1			-2	23
150060	5	15	840912	15	1021	15.5	50.0	27.5	50	2	80	968	1	2		-3	13
150060	5	15	840912	15	1051	15.5	50.0	5.0	50	1	80	900	1	1		-3	23
150060	5	15	840912	15	1051	15.5	50.0	17.5	40	3	45	800	1	2		-3	13
150060	6	101	841022	12	1247	9.1	50.0	9.5	70	1	80	930	3		11.0	+2	11
150060	6	101	841022	12	1247	9.1	50.0	40.5	70	2	70	980	3	2	11.0	+2	11
150060	7	102	841022	11	1312	11.4	50.0	50.0	70	2	80	930	3	15	10.0	+3	11
150060	8	103	841023	19	1000	14.2	50.0	50.0	70	1	70	900	1	9	11.0	-5	14
150060	9	104	841023	18	1024	12.3	50.0	10.0	30	2	30	638	1	9	11.0	-5	14
150060	9	104	841023	18	1024	12.3	50.0	40.0	70	1	70	900	1	9	11.0	-5	14
150060	10	105	841023	12	1046	13.1	50.0	50.0	70	1	80	930	3	16	11.0	00	14
150088	1	26	840914	19	843	11.6	50.0	50.0	40	3	30	789	3			+5	11
150088	2	27	840914	19	906	9.9	50.0	13.4	20	2	30	180	1	1		+6	11
150088	2	27	840914	19	906	9.9	50.0	36.6	50	2	60	930	1			+6	11
150088	3	28	840914	15	953	12.9	50.0	50.0	40	3	45	638	3			-1	11
150088	4	29	840914	13	1021	10.7	50.0	50.0	40	3	60	936	3			-1	11
150088	5	30	840914	9	1050	5.1	50.0	10.2	50	2	60	900	3			-2	11
150088	5	30	840914	9	1050	5.1	50.0	39.8	40	3	45	680	3			-2	11
150088	6	94	841021	15	1143	10.9	50.0	1.0	30	2	20	610	1	9	10.0	+2	13
150088	6	94	841021	15	1143	10.9	50.0	49.0	40	3	30	986	3	9	10.0	+2	13
150088	7	95	841021	11	1212	10.8	50.0	50.0	40	3	70	985	3	2	11.0	+2	13
150088	8	96	841021	11	1244	4.5	50.0	50.0	40	3	60	938	3		11.5	+3	13
150088	9	97	841022	18	940	9.9	50.0	50.0	60	2	45	920	1	14	10.0	00	11
150088	10	98	841022	18	1017	9.4	50.0	50.0	40	3	45	938	1	15	10.5	00	11
150121	1	1	840910	10	1305	8.5	50.0	15.0	40	4	15	730	3	2	12.0	00	24
150121	1	1	840910	10	1305	8.5	50.0	35.0	30	2	15	610	3	2	12.0	00	24
150121	2	2	840910	12	1354	9.0	50.0	21.0	10	1	15	300	1	2	12.0	+1	24
150121	2	2	840910	12	1354	9.0	50.0	29.0	40	3	15	830	3	2	12.0	+1	24
150121	3	3	840910	8	1434	7.6	50.0	22.0	30	3	45	630	3	2		+2	24
150121	3	3	840910	8	1434	7.6	50.0	28.0	50	2	90	810	3			+2	24
150121	4	4	840910	12	1515	8.3	50.0	5.0	30	2	20	630	3	2		+2	24
150121	4	4	840910	12	1515	8.3	50.0	45.0	50	2	70	710	3			+2	24
150121	5	5	840910	9	1550	9.8	50.0	50.0	50	1	80	930	3	2		+3	24
150121	6	91	841021	18	920	13.7	50.0	50.0	60	1	30	930	1		10.0	00	13

Table 2b (cont'd)

SITE	TR	DIV	DATE	DEP	TIME	VIS	TRNL	HABL	TY	R	SLO	SED	AL	RE	TEMP	TU	SF
150121	7	92	841021	18	955	9.7	50.0	50.0	50	2	80	930	3		10.0	00	13
150121	8	93	841021	16	1020	10.7	50.0	50.0	40	3	45	983	3		10.0	+1	13
150121	9	109	841024	18	934	7.9	50.0	50.0	40	4	30	837	3	4	11.0	-3	14
150121	10	110	841024	18	1014	7.9	50.0	8.0	60	1	15	901	1		10.0	-3	14
150121	10	110	841024	18	1014	7.9	50.0	42.0	50	1	80	920	1		10.0	-3	14
160073	1	58	841016	20	1136	14.8	50.0	50.0	30	2	45	873	1		11.0	+6	31
160073	2	59	841016	20	1200	11.3	50.0	50.0	60	2	45	973	1	8	11.5	+6	31
160073	3	60	841016	16	1224	12.2	50.0	50.0	40	3	40	783	3		10.5	+6	31
160073	4	61	841016	11	1311	7.7	50.0	50.0	40	2	30	894	3	12	12.0	-5	31
160073	5	74	841018	15	1055	9.9	50.0	50.0	50	3	60	983	3	14	10.5	+4	21
160073	6	75	841018	15	1115	14.2	50.0	50.0	30	2	30	764	3	14	9.5	+4	21
160073	7	82	841019	12	1040	13.3	50.0	50.0	40	3	60	875	3	2	10.5	+3	21
160073	8	83	841019	12	1104	8.9	50.0	7.0	50	1	60	930	3		11.0	+3	21
160073	8	83	841019	12	1104	8.9	50.0	43.0	40	3	45	874	3	14	11.0	+3	21
160073	9	84	841019	10	1203	8.4	50.0	50.0	40	3	45	786	3		10.0	+4	21
160073	10	85	841019	11	1227	12.6	50.0	50.0	40	3	45	786	3		11.0	+4	21
160102	1	41	840918	12	1237	7.2	50.0	50.0	60	2	45	982	3	7	12.0	+5	31
160102	2	42	840918	10	1303	5.3	50.0	50.0	70	2	60	920	3	7	13.0	+5	71
160102	3	46	840919	20	1239	17.1	50.0	50.0	70	1	60	900	1	10	9.0	+4	41
160102	4	47	840919	15	1311	8.6	50.0	50.0	70	1	80	900	1	8	12.5	+4	41
160102	5	48	840919	12	1344	8.2	50.0	5.0	30	2	30	367	1	1	12.0	+5	41
160102	5	48	840919	12	1344	8.2	50.0	22.5	40	3	30	837	3		12.0	+5	41
160102	5	48	840919	12	1344	8.2	50.0	22.5	60	2	45	980	3		12.0	+5	41
160102	6	64	841017	20	926	9.5	50.0	10.0	40	2	45	973	1		10.0	+3	31
160102	6	64	841017	20	926	9.5	50.0	40.0	70	1	80	983	1		10.0	+3	31
160102	7	65	841017	19	958	13.9	50.0	14.5	70	2	60	983	1		10.0	+4	31
160102	7	65	841017	19	958	13.9	50.0	35.5	60	1	30	930	1		10.0	+4	31
160102	8	66	841017	19	1021	9.8	50.0	50.0	70	1	60	900	1	2	10.0	+4	31
160102	9	67	841017	12	1102	10.2	50.0	50.0	70	2	60	980	3	5	10.0	+5	31
160102	10	68	841017	11	1119	12.7	50.0	9.0	40	3	45	863	3		10.0	+5	31
160102	10	68	841017	11	1119	12.7	50.0	41.0	40	4	60	983	3	2	10.0	+5	31
160113	1	36	840918	20	936	8.8	50.0	50.0	50	1	90	900	1	5	12.0	+3	21
160113	2	37	840918	15	1006	10.9	50.0	50.0	40	3	20	468	1	2	12.0	+3	31
160113	3	38	840918	15	1039	7.8	50.0	50.0	30	2	15	456	3	2	10.0	+3	31
160113	4	39	840918	12	1102	8.7	50.0	50.0	30	2	10	415	3		10.0	+4	31
160113	5	40	840918	10	1125	9.8	50.0	50.0	40	4	45	784	3		10.0	+4	31
160113	6	69	841017	12	1235	13.1	50.0	50.0	40	3	15	764	3	12	10.0	+6	21
160113	7	70	841017	10	1257	6.5	50.0	50.0	20	1	10	146	6		10.0	+6	21
160113	8	71	841017	9	1321	7.0	50.0	50.0	50	1	70	930	5		9.5	+6	21
160113	9	72	841018	20	922	12.8	50.0	20.5	40	4	60	985	1		10.5	+3	31
160113	9	72	841018	20	922	12.8	50.0	29.5	30	2	40	763	1		10.5	+3	31
160113	10	73	841018	16	949	13.2	50.0	50.0	20	1	10	156	1		10.0	+3	31
160216	1	49	840921	15	916	12.2	50.0	50.0	70	2	60	981	1	9	8.0	00	21
160216	2	51	840921	15	936	13.7	50.0	50.0	70	2	60	982	1	9	8.0	+1	21
160216	3	51	840921	15	956	13.6	50.0	50.0	70	1	60	980	1	10	8.0	+1	21
160216	4	52	840921	9	1024	14.0	50.0	50.0	40	3	70	972	3	2	8.5	+1	21
160216	5	53	840921	9	1047	14.2	50.0	50.0	40	3	60	983	3	2	9.0	+2	21
160216	6	76	841018	12	1226	10.2	50.0	50.0	40	4	60	973	3	12	10.0	+5	11

Table 2b (cont'd)

SITE	TR	DIV	DATE	DEP	TIME	VIS	TRNL	HABL	TY	R	SLO	SED	AL	RE	TEMP	TD	SF
160216	7	77	841018	12	1249	9.8	50.0	16.0	70	1	80	900	1		10.0	+5	11
160216	7	77	841018	12	1249	9.8	50.0	34.0	70	2	70	963	3		10.0	+5	11
160216	8	78	841018	12	1315	14.6	50.0	18.0	70	2	80	930	3	1	10.0	+5	11
160216	8	78	841018	12	1315	14.6	50.0	32.0	40	3	30	978	3	4	10.0	+5	11
160216	9	86	841020	20	850	13.3	50.0	50.0	60	2	45	938	1	15	9.0	00	13
160216	10	87	841020	17	914	12.6	50.0	50.0	60	2	30	983	1	4	10.0	+1	13
160223	1	43	840919	12	856	8.5	50.0	24.0	40	4	45	873	3		11.5	+1	31
160223	1	43	840919	12	856	8.5	50.0	26.0	50	1	80	900	3		11.5	+1	31
160223	2	44	840919	12	921	9.3	50.0	50.0	50	2	60	983	3	2	11.0	+2	31
160223	3	45	840919	10	945	9.5	50.0	11.5	40	2	20	719	3		12.0	+2	31
160223	3	45	840919	10	945	9.5	50.0	38.5	60	2	45	983	3	2	12.0	+2	31
160223	4	54	840921	15	1200	14.5	50.0	50.0	50	3	70	983	1		7.5	+2	21
160223	5	55	840921	15	1227	14.0	50.0	19.5	10	1	45	300	1	11	7.5	+3	21
160223	5	55	840921	15	1227	14.0	50.0	30.5	40	3	50	987	1	9	7.5	+3	21
160223	6	56	840921	10	1247	15.2	50.0	21.0	40	3	50	879	3	2	8.0	+3	21
160223	6	56	840921	10	1247	15.2	50.0	29.0	50	2	70	983	3	12	8.0	+3	21
160223	7	57	840921	9	1313	12.6	50.0	21.5	40	3	45	893	3		8.5	+3	21
160223	7	57	840921	9	1313	12.6	50.0	28.5	50	1	70	900	3	2	8.5	+3	21
160223	8	88	841020	12	1003	13.0	50.0	2.0	40	3	45	783	3		11.0	+1	13
160223	8	88	841020	12	1003	13.1	50.0	48.0	50	2	60	930	3	2	11.0	+1	13
160223	9	89	841020	12	1027	10.4	50.0	50.0	60	2	45	983	3	9	11.0	+2	13
160223	10	90	841020	10	1050	11.2	50.0	50.0	60	2	30	937	3	2	11.0	+2	13
160234	1	31	840917	19	1432	13.2	50.0	23.0	60	1	25	900	1		12.0	-3	73
160234	1	31	840917	19	1432	13.2	50.0	27.0	40	3	15	830	1		12.0	-3	73
160234	2	32	840917	18	1454	12.5	50.0	50.0	30	2	15	630	1		12.0	-3	73
160234	3	33	840917	13	1530	6.1	50.0	5.0	40	4	30	897	3	4	16.0	-4	73
160234	4	34	840917	12	1548	6.0	50.0	50.0	60	2	45	987	3	4	16.0	-4	73
160234	5	35	840917	10	1606	5.4	50.0	50.0	60	2	15	900	3	4	16.0	-5	73
160234	6	62	841016	12	1440	13.6	50.0	50.0	40	3	20	978	3	13	12.0	-4	41
160234	7	63	841016	12	1500	10.7	50.0	50.0	60	2	15	983	3	13	11.0	-4	41
160234	8	79	841019	18	847	11.9	50.0	50.0	40	3	45	987	1		10.0	+2	21
160234	9	80	841019	18	906	9.1	50.0	50.0	40	3	45	879	1		10.0	+2	21
160234	10	81	841019	16	925	10.4	50.0	50.0	40	3	20	879	3		9.5	+3	21

Table 3a. Site, transect number, habitat type and counts of each fish species observed in each habitat type of each transect (RF ratfish Hydrolagus colliei, KP kelp perch Brachyistius frenatus, SHP shiner perch Cymatogaster aggregata, STP striped perch Embiotoca lateralis, PP pile perch Rhacochilus vacca, WE wolf-eel Anarrhichthys ocellatus, CO copper rockfish Sebastes caurinus, QB quillback rockfish S. maliger, TI tiger rockfish S. nigrocinctus, KG kelp greenling Hexagrammos decagrammus, WG whitespotted greenling H. stelleri, LC lingcod Ophiodon elongatus, PG painted greenling Oxylebius pictus). For a description of habitat types see Table 1.

SITE	TR	HA	RF	KP	SHP	STP	PP	WE	CO	QB	TI	KG	WG	LC	PG
160124	1	40	0	0	0	0	0	0	3	3	0	0	0	1	0
160124	2	40	0	2	0	0	0	0	16	1	0	0	0	0	0
160124	3	60	0	0	0	0	0	0	0	0	0	1	0	0	0
160124	3	30	0	0	0	0	0	0	3	0	0	2	0	1	0
160124	4	30	0	0	0	0	0	0	10	3	0	2	0	0	0
160124	5	30	0	0	0	5	0	0	26	0	0	1	0	0	1
160124	6	30	0	0	0	0	0	0	32	0	0	0	0	0	0
160124	7	30	0	0	0	0	0	0	0	0	0	0	0	0	0
160124	7	50	0	0	0	0	0	0	54	1	0	2	0	2	0
160124	8	30	0	1	0	2	0	0	53	1	0	2	0	0	0
160124	9	30	0	0	0	7	0	0	36	1	0	0	0	0	2
160124	10	40	0	1	0	2	4	0	51	0	0	0	0	0	0
160132	1	50	0	0	0	8	1	0	21	0	0	0	0	1	3
160132	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0
160132	3	50	0	0	0	22	4	0	104	2	0	0	0	1	3
160132	4	30	0	0	0	50	20	0	59	1	0	1	0	1	2
160132	5	30	0	0	0	50	20	0	136	0	0	2	0	2	0
160132	6	60	0	0	0	20	5	0	12	0	0	0	0	1	0
160132	6	30	0	0	0	9	2	0	27	0	0	0	0	1	1
160132	7	60	0	0	0	0	0	0	1	0	0	1	0	0	0
160132	7	30	0	0	0	20	5	0	19	1	0	4	0	3	0
160201	1	70	0	0	0	0	0	0	5	5	0	3	0	0	0
160201	2	40	0	0	0	0	0	0	4	10	0	0	0	0	1
160201	2	70	0	0	0	0	1	1	7	14	0	1	0	1	0
160201	3	70	0	0	200	7	10	0	11	6	0	1	0	1	0
160201	4	70	0	0	0	0	0	0	200	7	0	0	0	1	0
160201	4	40	0	0	0	0	0	0	1	25	0	0	0	0	0
160201	5	70	0	0	0	5	0	0	8	0	0	0	1	0	0
160201	5	40	0	1	0	0	2	0	56	0	0	0	0	0	0
160201	6	40	0	0	0	0	0	0	5	0	0	1	0	0	0
160201	6	70	0	1	0	15	5	0	0	5	0	0	0	0	0
160201	7	70	0	2	0	1	1	0	23	0	0	1	0	0	0
160201	7	40	0	2	0	9	3	0	5	0	0	0	0	0	1
160201	8	70	0	0	0	15	0	0	2	25	1	3	0	4	0
160201	9	70	0	2	2	4	1	0	18	0	0	0	0	0	2
160201	10	70	0	0	1	50	50	0	5	0	0	0	0	0	0

Table 3a (cont'd)

SITE	TR	HA	RF	KP	SHP	STP	PP	WE	CO	QB	TI	KG	WG	LC	PG
160201	10	40	0	3	0	100	100	0	22	0	0	1	0	0	1
160227	1	20	0	0	0	0	0	0	20	0	0	0	0	0	0
160227	1	30	0	0	0	0	0	0	2	12	0	0	0	1	0
160227	2	20	0	0	0	0	0	0	0	0	0	0	0	1	0
160227	3	20	0	0	0	0	0	0	1	1	0	1	0	1	0
160227	4	20	0	0	0	0	0	0	2	52	0	0	0	0	0
160227	5	30	0	0	0	0	0	0	3	0	0	0	0	1	0
160227	6	30	0	0	0	0	0	0	1	1	0	0	0	0	0
160227	6	30	0	0	0	0	0	0	3	4	0	1	0	1	0
160227	7	30	0	0	0	0	0	0	3	0	0	0	0	1	0
160227	8	50	0	0	100	60	170	0	23	0	0	1	0	1	3
160227	9	50	0	0	60	4	20	0	32	0	0	2	0	0	0
160227	10	40	0	0	0	3	65	0	31	0	0	10	0	0	0
160234	1	60	0	0	0	0	0	0	101	15	0	0	0	4	0
160234	2	60	0	0	0	0	0	0	2	4	0	0	0	3	0
160234	2	60	0	0	0	0	0	0	1	6	0	1	0	2	0
160234	2	40	0	0	0	0	0	0	0	30	2	0	0	4	0
160234	3	30	1	0	0	0	0	0	1	42	0	0	0	0	0
160234	4	60	0	0	0	0	0	0	0	21	1	0	0	0	0
160234	4	40	0	0	0	0	0	0	0	31	1	1	0	2	0
160234	5	60	0	0	0	0	0	0	0	0	0	0	0	0	0
160234	5	30	0	0	0	0	0	0	0	24	1	0	0	1	0
160234	6	30	0	0	0	0	0	0	1	8	0	0	0	4	0
160242	1	30	0	0	0	0	0	0	12	0	0	1	0	0	0
160242	2	30	0	0	0	0	0	0	53	0	0	1	0	0	0
160242	3	30	0	0	0	0	0	0	70	0	0	2	0	1	0
160242	4	30	0	1	0	0	0	0	21	0	0	1	0	0	0
160242	5	20	0	0	0	0	0	0	0	0	0	0	0	0	0
160242	5	30	0	0	0	0	0	0	8	0	0	1	0	1	0
160242	6	20	0	0	0	0	0	0	0	0	0	0	0	0	0
160242	6	30	0	0	0	0	0	0	6	0	0	0	0	0	0
160242	7	20	1	0	0	0	0	0	3	1	0	0	0	0	0
160242	7	30	0	0	0	0	0	0	0	0	0	0	0	0	0
Total			2	16	363	468	489	1	1434	363	6	52	1	50	20

Table 3b. Site, transect number, habitat type and counts of each fish species observed in each habitat type of each transect (DF dogfish Squalus acanthias, RF ratfish Hydrolagus colliei, KP kelp perch Brachyistius frenatus, SHP shiner perch Cymatogaster aggregata, STP striped perch Embiotoca lateralis, PP pile perch Rhacochilus vacca, WE wolf-eel Anarrhichthys ocellatus, CO copper rockfish Sebastes caurinus, YT yellowtail rockfish S. flavidus, QB quillback rockfish S. maliger, TI tiger rockfish S. nigrocinctus, YE yelloweye rockfish S. ruberrimus, KG kelp greenling Hexagrammos decagrammus, LC lingcod Ophiodon elongatus, PG painted greenling Oxylebius pictus, RL red-Irish lord Hemilepidotus hemilepidotus, CS C-O sole Pleuronichthys coenosus). For a description of habitat types see Table 1.

SITE	TR	HA	DF	RF	KP	SHP	STP	PP	WE	CO	YT	QB	TI	YE	KG	LC	PG	RL	CS
150006	1	70	0	0	0	0	0	8	0	7	0	9	0	1	2	2	0	0	0
150006	2	70	1	0	6	0	0	22	0	113	0	27	0	1	0	1	1	0	0
150006	3	70	0	0	0	0	0	4	0	30	0	4	0	0	0	0	0	0	0
150006	3	40	0	0	7	0	0	10	0	47	0	9	0	0	1	3	0	0	0
150006	4	40	1	0	4	0	26	30	0	72	0	0	0	0	1	0	0	0	0
150006	6	70	2	0	0	0	0	0	0	25	0	18	0	0	1	0	0	0	0
150006	7	70	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
150006	7	40	4	0	0	0	0	5	0	40	0	11	0	0	0	3	0	0	0
150006	8	70	0	0	0	0	0	0	0	20	0	18	1	2	1	0	0	0	0
150006	8	40	0	0	0	0	0	0	0	20	0	17	1	2	1	0	0	0	0
150006	9	70	1	0	0	0	0	0	0	10	0	5	0	0	1	0	0	0	0
150006	10	40	0	0	0	0	0	0	0	15	0	11	0	0	1	1	0	0	0
150006	10	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
150027	1	50	0	0	3	0	2	5	0	236	0	5	0	0	1	2	1	0	0
150027	2	20	0	0	2	0	3	5	0	10	0	0	0	0	2	0	0	0	0
150027	2	20	0	0	0	0	5	0	0	43	0	0	0	0	1	2	0	0	0
150027	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150027	3	40	0	0	0	0	0	3	0	123	0	1	0	0	0	0	0	0	0
150027	4	40	0	0	0	0	0	0	0	2	0	14	0	0	0	0	0	0	0
150027	4	50	1	0	0	0	0	0	0	150	0	12	0	0	1	3	0	0	0
150027	5	40	1	0	0	0	0	0	0	21	0	45	0	0	2	1	0	0	0
150027	6	50	0	0	0	0	0	0	0	11	0	1	0	0	0	0	0	0	0
150027	7	40	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
150027	7	40	0	0	0	0	0	10	0	0	0	29	1	0	0	0	0	0	0
150027	7	20	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0
150027	8	40	0	0	0	0	10	60	0	74	0	12	4	1	1	1	2	0	0
150027	9	30	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
150027	9	60	0	0	0	150	0	0	0	140	0	2	0	0	2	0	0	0	0
150027	10	10	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
150027	10	60	0	0	0	0	0	0	1	40	0	0	0	0	0	0	0	0	0
150056	1	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150056	1	50	3	0	0	0	0	0	0	390	0	16	0	2	0	1	0	0	0
150056	2	50	1	0	0	0	0	0	0	107	0	106	0	4	1	1	0	0	0
150056	3	30	0	0	0	0	0	0	0	10	0	2	0	0	0	0	0	0	0
150056	3	50	0	0	1	0	0	6	0	130	0	38	0	0	0	3	0	0	0

Table 3b (cont'd)

SITE	TR	HA	DF	RF	KP	SHP	STP	PP	WE	CO	YT	QB	TI	YE	KG	LC	PG	RL	CS
150056	4	10	0	0	0	0	0	0	0	131	0	10	0	0	0	0	0	0	0
150056	4	50	2	0	0	0	0	0	0	766	0	6	0	1	2	0	0	0	0
150056	5	30	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
150056	5	50	0	0	0	0	10	19	0	77	0	0	0	0	2	0	0	0	0
150056	6	40	0	0	0	50	10	20	0	28	0	38	1	0	0	1	0	0	0
150056	6	50	1	0	0	0	0	0	0	37	0	25	0	0	0	0	0	0	0
150056	7	50	3	0	0	0	0	1	0	22	2	48	0	1	4	0	0	0	0
150056	8	40	0	0	0	0	40	12	0	71	0	36	0	0	0	0	0	0	0
150056	8	50	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
150056	8	50	0	0	0	0	10	0	0	44	0	2	0	0	2	0	0	0	0
150056	9	50	0	0	0	0	10	1	0	13	0	12	0	0	0	0	0	0	0
150056	10	50	0	0	0	0	2	0	0	20	0	0	0	0	0	0	0	0	0
150056	10	40	1	0	3	0	0	5	0	28	0	2	0	0	1	2	0	0	0
150060	1	40	2	0	0	0	0	0	0	353	0	16	1	0	0	1	2	0	0
150060	2	40	1	1	0	0	0	0	0	232	0	0	0	0	0	2	1	0	0
150060	3	50	1	0	0	0	0	0	0	86	0	48	0	0	0	0	1	0	0
150060	4	50	1	0	0	0	0	5	0	155	0	36	1	2	0	1	0	0	0
150060	4	30	1	0	0	0	0	0	0	10	0	25	0	0	0	0	0	0	0
150060	5	50	0	0	0	0	0	0	0	67	0	2	0	0	0	0	0	0	0
150060	5	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150060	5	40	0	0	0	0	0	0	0	11	0	10	0	0	0	0	0	0	0
150060	6	70	0	0	0	0	4	0	0	12	0	0	0	0	3	0	0	0	0
150060	6	70	200	0	0	0	0	0	0	16	0	11	0	0	0	1	0	0	0
150060	7	70	7	0	0	0	0	0	0	32	0	2	0	0	0	0	0	0	0
150060	8	70	25	0	0	0	0	0	0	3	0	6	0	0	0	0	0	0	0
150060	9	30	15	0	0	0	0	0	0	7	0	10	0	0	0	0	0	0	0
150060	9	70	25	0	0	0	10	0	0	2	0	4	0	1	1	0	0	0	0
150060	10	70	50	0	0	0	0	0	0	7	0	0	0	0	3	0	0	0	0
150088	1	40	0	0	0	0	0	1	0	142	0	6	2	0	5	2	0	0	0
150088	2	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150088	2	50	1	0	0	0	0	0	0	14	0	0	0	0	0	1	0	0	0
150088	3	40	1	0	0	0	3	0	0	64	0	5	0	0	2	0	0	0	0
150088	4	40	1	0	0	0	0	0	0	95	0	3	0	0	1	0	1	0	0
150088	5	50	0	0	0	0	0	0	0	11	0	0	0	0	1	0	0	0	0
150088	5	40	0	0	5	0	8	6	0	13	0	0	0	0	2	0	0	0	0
150088	6	30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
150088	6	40	1	0	0	0	0	5	0	90	0	9	0	0	0	0	1	0	0
150088	7	40	0	0	0	0	15	5	0	98	0	3	0	0	3	1	1	0	0
150088	8	40	0	0	0	0	8	10	0	17	0	1	0	0	2	0	2	0	0
150088	9	60	0	0	0	0	0	0	0	4	0	4	1	0	2	3	0	0	0
150088	10	40	0	0	0	0	0	1	0	28	0	26	1	0	2	0	0	0	0
150121	1	40	0	0	0	0	0	1	0	50	0	4	0	0	1	0	0	0	0
150121	1	30	1	0	0	0	0	1	0	320	0	1	0	0	1	0	0	0	0
150121	2	10	1	0	0	0	0	0	0	10	0	1	0	0	0	0	0	0	0
150121	2	40	6	0	0	0	0	0	0	701	0	4	0	0	2	0	0	0	0
150121	3	30	0	0	0	0	0	0	0	92	0	4	0	0	0	1	0	0	0

Table 3b (cont'd)

SITE	TR	HA	DF	RF	KP	SHP	STP	PP	WE	CO	YT	QB	TI	YE	KG	LC	PG	RL	CS
150121	3	50	0	0	3	0	1	7	0	12	0	1	0	0	1	0	2	0	0
150121	4	30	0	0	0	0	0	0	0	30	0	1	0	0	0	0	0	0	0
150121	4	50	0	0	0	0	0	0	0	365	0	0	0	0	0	1	0	0	0
150121	5	50	0	1	0	0	0	4	0	97	0	0	0	0	3	0	0	0	0
150121	6	60	1	0	0	0	0	0	0	10	0	13	0	0	5	0	0	0	0
150121	7	50	0	1	0	0	0	0	0	21	0	13	0	0	2	0	0	0	0
150121	8	40	0	0	0	0	8	10	0	43	0	48	0	0	0	0	0	0	0
150121	9	40	0	0	0	0	15	0	0	16	0	41	2	0	1	4	0	0	0
150121	10	60	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0
150121	10	50	0	0	0	0	0	0	0	15	0	11	0	0	1	0	0	0	0
160073	1	30	0	0	0	0	0	10	0	3	0	24	3	0	1	0	0	0	0
160073	2	60	0	0	0	500	0	0	0	150	0	11	0	0	0	1	0	0	0
160073	3	40	0	0	0	0	0	63	0	9	0	16	0	0	2	1	0	0	0
160073	4	40	0	0	0	0	0	5	0	115	0	0	0	0	1	0	0	0	0
160073	5	50	0	0	0	0	1	0	0	31	0	18	0	0	1	0	0	0	0
160073	6	30	0	0	0	0	0	0	0	39	0	0	0	0	1	0	0	0	0
160073	7	40	0	0	4	0	75	25	0	78	0	5	1	0	1	1	0	0	0
160073	8	50	0	0	1	20	0	0	0	23	0	0	0	0	0	0	0	0	0
160073	8	40	0	0	25	130	80	35	0	108	0	7	0	0	1	0	0	0	0
160073	9	40	0	0	20	0	35	10	0	65	0	1	0	0	2	0	0	0	0
160073	10	40	0	0	7	0	30	6	0	54	0	15	0	0	0	0	0	0	0
160102	1	60	2	0	3	0	4	4	0	62	0	0	0	0	2	1	1	0	0
160102	2	70	0	0	16	0	11	5	0	30	0	0	0	0	2	1	1	0	0
160102	3	70	1	0	0	0	1	4	0	2	0	1	0	0	2	5	0	0	0
160102	4	70	0	0	0	0	0	50	0	17	0	0	0	0	4	2	4	0	0
160102	5	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160102	5	40	0	0	2	0	5	7	0	63	0	0	0	0	1	1	1	0	0
160102	5	60	0	0	6	0	5	0	0	5	0	0	0	0	2	0	2	0	0
160102	6	40	0	0	0	0	4	10	0	5	0	10	0	0	0	0	0	0	0
160102	6	70	0	0	0	0	1	0	0	0	0	40	0	0	1	1	0	0	0
160102	7	70	0	0	0	0	0	0	0	4	0	4	0	0	2	2	0	0	0
160102	7	60	0	0	0	0	10	0	0	2	0	5	0	0	1	1	0	0	0
160102	8	70	0	0	0	1500	3	0	0	0	0	3	0	0	3	0	0	0	0
160102	9	70	2	0	5	0	20	0	0	73	0	0	0	0	4	0	2	0	0
160102	10	40	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0
160102	10	40	1	0	0	0	23	20	0	86	0	3	0	0	2	0	0	0	0
160113	1	50	0	0	0	0	0	2	0	11	0	28	2	3	4	2	0	0	0
160113	2	40	0	0	0	0	0	1	0	80	0	52	0	0	3	13	0	0	0
160113	3	30	1	0	0	0	0	0	0	1161	0	0	0	0	7	2	0	0	0
160113	4	30	0	0	0	0	0	0	0	3	0	0	0	0	9	0	0	0	0
160113	5	40	0	0	3	0	40	50	0	11	0	0	0	0	4	0	1	0	0
160113	6	40	0	0	0	0	30	10	0	10	0	1	0	0	4	2	1	0	0
160113	7	20	0	0	0	0	1	0	0	1	0	0	0	0	2	1	0	0	0
160113	8	50	0	0	0	0	17	0	0	2	0	0	0	0	4	2	0	0	0
160113	9	40	0	0	0	0	0	0	0	2	0	11	0	0	1	1	0	0	0
160113	9	30	0	0	0	0	0	0	0	12	0	56	0	0	0	0	0	0	0
160113	10	20	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1
160216	1	70	1	1	0	0	0	3	0	256	0	18	0	0	1	0	0	0	0

Table 3b (cont'd)

SITE	TR	HA	DF	RF	KP	SHP	STP	PP	WE	CO	YT	QB	TI	YE	KG	LC	PG	RL	CS
160216	2	70	0	0	0	0	0	0	0	5	0	16	1	0	3	5	0	0	0
160216	3	70	0	2	0	0	0	0	0	2	0	19	0	0	1	2	0	0	0
160216	4	40	0	0	0	0	0	0	0	63	0	0	0	0	3	1	0	0	0
160216	5	40	0	0	0	0	0	11	0	76	0	9	0	0	1	5	1	0	0
160216	6	40	0	0	0	0	0	2	0	158	0	14	0	0	1	1	0	0	0
160216	7	70	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
160216	7	70	0	0	0	0	12	2	0	23	0	0	0	0	1	0	0	0	0
160216	8	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160216	8	40	0	0	0	0	8	0	0	76	0	0	0	0	3	4	0	0	0
160216	9	60	0	0	0	0	0	0	0	4	0	75	1	0	2	0	0	0	0
160216	10	60	0	0	0	0	0	32	0	0	0	32	0	0	1	1	0	0	0
160223	1	40	0	0	23	0	24	3	0	123	0	0	0	0	1	0	0	0	0
160223	1	50	3	0	3	0	9	2	0	36	0	0	0	0	1	0	0	0	0
160223	2	50	1	0	34	0	23	70	0	86	0	0	0	0	1	1	0	0	0
160223	3	40	0	0	3	0	0	0	0	11	0	0	0	0	3	0	0	0	0
160223	3	60	1	0	5	0	2	7	0	102	0	0	0	0	1	0	0	0	0
160223	4	50	0	2	0	0	0	0	0	43	0	38	2	0	1	0	0	0	0
160223	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160223	5	40	0	0	0	0	0	0	0	104	0	64	0	0	0	3	2	0	0
160223	6	40	0	0	0	150	15	0	0	37	0	0	0	0	1	0	0	1	0
160223	6	50	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
160223	7	40	0	0	0	0	0	0	0	21	0	0	0	0	0	1	0	0	0
160223	7	50	0	0	0	0	0	0	0	50	0	0	0	0	1	1	1	0	0
160223	8	40	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
160223	8	50	0	0	1	0	2	40	0	91	0	1	0	0	5	3	0	0	0
160223	9	60	0	0	3	0	20	5	0	25	0	0	0	0	0	1	0	0	0
160223	10	60	0	0	2	0	0	20	0	76	0	2	0	0	0	0	0	0	0
160234	1	60	0	1	0	0	0	0	0	16	0	0	1	0	0	0	0	0	0
160234	1	40	0	0	0	0	0	0	0	22	0	80	1	0	1	1	0	0	0
160234	2	30	0	1	0	0	0	0	0	20	0	14	0	0	1	0	0	0	0
160234	3	40	0	0	0	0	0	1	0	95	0	9	2	0	3	0	0	0	0
160234	4	60	0	0	0	0	0	0	0	99	0	0	0	0	4	2	0	0	0
160234	5	60	0	0	0	0	0	2	0	70	0	0	0	0	2	0	0	0	0
160234	6	40	0	0	0	0	0	2	0	77	0	48	0	0	3	2	0	0	0
160234	7	60	1	0	0	0	0	0	0	26	0	0	0	0	1	0	0	0	0
160234	8	40	0	0	0	0	0	0	0	4	0	76	5	0	1	4	0	0	0
160234	9	40	0	0	0	0	0	0	0	0	0	127	9	0	1	1	0	0	0
160234	10	40	0	0	0	0	0	4	0	9	0	90	3	0	2	3	0	0	0
Total			379	12	206	2500	743	813	1	10892	2	2043	47	22	202	131	33	1	1

Table 4. Site, transect number, habitat type and the size distributions of rockfishes and hexagrammids observed on the preliminary and contract dive surveys. The numbers 5 to 80 in the column headings refer to the upper limit of the 5-cm size class, and the table entries are the counts of observed fish in that size class for that habitat type and transect. For a description of habitat types see Table 1.

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SPECIES:COPPER ROCKFISH
SURVEY:PRELIMINARY

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160124	1	40	0	0	0	0	0	1	0	2	0	0	0	0
160124	2	40	13	0	0	0	0	3	0	0	0	0	0	0
160124	3	30	1	0	0	0	0	1	1	0	0	0	0	0
160124	4	30	6	0	0	1	0	1	0	2	0	0	0	0
160124	5	30	20	2	0	0	2	1	0	1	0	0	0	0
160124	6	30	32	0	0	0	0	0	0	0	0	0	0	0
160124	7	50	50	1	0	0	2	0	0	1	0	0	0	0
160124	8	30	50	0	0	2	0	1	0	0	0	0	0	0
160124	9	30	21	2	1	1	0	3	4	4	0	0	0	0
160124	10	40	23	2	2	8	2	7	4	3	0	0	0	0
160132	1	50	2	6	8	1	1	2	1	0	0	0	0	0
160132	3	50	101	0	0	1	1	1	0	0	0	0	0	0
160132	4	30	51	3	1	0	0	2	0	1	1	0	0	0
160132	5	30	123	2	2	0	3	4	2	0	0	0	0	0
160132	6	30	25	0	1	0	0	1	0	0	0	0	0	0
160132	6	60	9	0	0	0	0	3	0	0	0	0	0	0
160132	7	30	6	0	2	6	0	5	0	0	0	0	0	0
160132	7	60	0	0	0	0	0	1	0	0	0	0	0	0
160201	1	70	0	0	0	0	1	1	2	1	0	0	0	0
160201	2	40	0	0	0	1	1	1	0	1	0	0	0	0
160201	2	70	5	0	0	0	1	1	0	0	0	0	0	0
160201	3	70	10	0	0	1	0	0	0	0	0	0	0	0
160201	4	40	0	0	0	0	1	0	0	0	0	0	0	0
160201	4	70	200	0	0	0	0	0	0	0	0	0	0	0
160201	5	40	50	2	0	2	1	1	0	0	0	0	0	0
160201	5	70	0	5	2	0	0	0	0	0	0	0	0	0
160201	6	40	0	0	0	3	0	1	0	1	0	0	0	0
160201	7	40	0	0	0	0	3	2	0	0	0	0	0	0
160201	7	70	20	0	0	0	1	1	1	0	0	0	0	0
160201	8	70	0	0	0	0	1	0	1	0	0	0	0	0
160201	9	70	2	5	1	3	1	5	1	0	0	0	0	0
160201	10	40	0	6	3	6	0	1	6	0	0	0	0	0
160201	10	70	0	0	0	1	0	2	1	1	0	0	0	0
160227	1	20	20	0	0	0	0	0	0	0	0	0	0	0
160227	1	30	0	0	1	1	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160227	3	20	0	0	1	0	0	0	0	0	0	0	0	0
160227	4	20	1	1	0	0	0	0	0	0	0	0	0	0
160227	5	30	0	1	0	2	0	0	0	0	0	0	0	0
160227	6	30	0	0	0	1	0	0	0	0	0	0	0	0
160227	6	30	0	0	0	0	3	0	0	0	0	0	0	0
160227	7	30	1	1	0	1	0	0	0	0	0	0	0	0
160227	8	50	1	5	6	4	5	2	0	0	0	0	0	0
160227	9	50	7	3	9	7	6	0	0	0	0	0	0	0
160227	10	40	1	7	6	17	0	0	0	0	0	0	0	0
160234	1	60	100	0	1	0	0	0	0	0	0	0	0	0
160234	2	60	0	0	0	0	0	1	1	0	0	0	0	0
160234	2	60	1	0	0	0	0	0	0	0	0	0	0	0
160234	3	30	0	0	0	1	0	0	0	0	0	0	0	0
160234	6	30	0	0	0	0	0	1	0	0	0	0	0	0
160242	1	30	7	0	0	0	0	4	0	0	1	0	0	0
160242	2	30	51	1	0	0	0	1	0	0	0	0	0	0
160242	3	30	70	0	0	0	0	0	0	0	0	0	0	0
160242	4	30	20	1	0	0	0	0	0	0	0	0	0	0
160242	5	30	7	0	0	1	0	0	0	0	0	0	0	0
160242	6	30	3	2	0	1	0	0	0	0	0	0	0	0
160242	7	20	3	0	0	0	0	0	0	0	0	0	0	0
Total			1113	58	47	73	36	62	25	18	2	0	0	0

Table 4 (cont'd)

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SPECIES:COPPER ROCKFISH
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150006	1	70	7	0	0	0	0	0	0	0	0	0	0	0
150006	2	70	103	4	6	0	0	0	0	0	0	0	0	0
150006	3	40	44	3	0	0	0	0	0	0	0	0	0	0
150006	3	70	30	0	0	0	0	0	0	0	0	0	0	0
150006	4	40	69	3	0	0	0	0	0	0	0	0	0	0
150006	5	40	83	14	2	0	0	0	0	0	0	0	0	0
150006	6	70	25	0	0	0	0	0	0	0	0	0	0	0
150006	7	40	40	0	0	0	0	0	0	0	0	0	0	0
150006	7	70	30	0	0	0	0	0	0	0	0	0	0	0
150006	8	40	20	0	0	0	0	0	0	0	0	0	0	0
150006	8	70	20	0	0	0	0	0	0	0	0	0	0	0
150006	9	70	10	0	0	0	0	0	0	0	0	0	0	0
150006	10	40	15	0	0	0	0	0	0	0	0	0	0	0
150006	10	60	20	0	0	0	0	0	0	0	0	0	0	0
150027	1	50	225	9	2	0	0	0	0	0	0	0	0	0
150027	2	20	6	2	2	0	0	0	0	0	0	0	0	0
150027	2	20	41	2	0	0	0	0	0	0	0	0	0	0
150027	3	40	107	13	3	0	0	0	0	0	0	0	0	0
150027	4	40	1	0	1	0	0	0	0	0	0	0	0	0
150027	4	50	150	0	0	0	0	0	0	0	0	0	0	0
150027	5	40	15	2	4	0	0	0	0	0	0	0	0	0
150027	6	50	10	0	1	0	0	0	0	0	0	0	0	0
150027	7	20	3	0	0	0	0	0	0	0	0	0	0	0
150027	8	40	70	4	0	0	0	0	0	0	0	0	0	0
150027	9	30	40	0	0	0	0	0	0	0	0	0	0	0
150027	9	60	140	0	0	0	0	0	0	0	0	0	0	0
150027	10	10	10	0	0	0	0	0	0	0	0	0	0	0
150027	10	60	40	0	0	0	0	0	0	0	0	0	0	0
150056	1	50	390	0	0	0	0	0	0	0	0	0	0	0
150056	2	50	107	0	0	0	0	0	0	0	0	0	0	0
150056	3	30	10	0	0	0	0	0	0	0	0	0	0	0
150056	3	50	130	0	0	0	0	0	0	0	0	0	0	0
150056	4	10	120	11	0	0	0	0	0	0	0	0	0	0
150056	4	50	760	4	2	0	0	0	0	0	0	0	0	0
150056	5	30	100	0	0	0	0	0	0	0	0	0	0	0
150056	5	50	63	11	3	0	0	0	0	0	0	0	0	0
150056	6	40	21	6	1	0	0	0	0	0	0	0	0	0
150056	6	50	36	0	1	0	0	0	0	0	0	0	0	0
150056	7	50	20	2	0	0	0	0	0	0	0	0	0	0
150056	8	40	65	6	0	0	0	0	0	0	0	0	0	0
150056	8	50	42	2	0	0	0	0	0	0	0	0	0	0
150056	9	50	11	1	1	0	0	0	0	0	0	0	0	0
150056	10	40	21	5	2	0	0	0	0	0	0	0	0	0
150056	10	50	20	0	0	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150060	1	40	333	10	8	2	0	0	0	0	0	0	0	0
150060	2	40	230	1	1	0	0	0	0	0	0	0	0	0
150060	3	50	79	7	0	0	0	0	0	0	0	0	0	0
150060	4	30	10	0	0	0	0	0	0	0	0	0	0	0
150060	4	50	150	0	5	0	0	0	0	0	0	0	0	0
150060	5	40	5	2	1	0	0	0	0	0	0	3	0	0
150060	5	50	62	3	2	0	0	0	0	0	0	0	0	0
150060	6	70	10	2	0	0	0	0	0	0	0	0	0	0
150060	6	70	10	6	0	0	0	0	0	0	0	0	0	0
150060	7	70	25	6	1	0	0	0	0	0	0	0	0	0
150060	8	70	2	1	0	0	0	0	0	0	0	0	0	0
150060	9	30	5	2	0	0	0	0	0	0	0	0	0	0
150060	9	70	1	1	0	0	0	0	0	0	0	0	0	0
150060	10	70	6	1	0	0	0	0	0	0	0	0	0	0
150088	1	40	123	7	12	0	0	0	0	0	0	0	0	0
150088	2	50	10	4	0	0	0	0	0	0	0	0	0	0
150088	3	40	44	13	7	0	0	0	0	0	0	0	0	0
150088	4	40	81	6	8	0	0	0	0	0	0	0	0	0
150088	5	40	1	6	6	0	0	0	0	0	0	0	0	0
150088	5	50	11	0	0	0	0	0	0	0	0	0	0	0
150088	6	40	87	3	0	0	0	0	0	0	0	0	0	0
150088	7	40	90	4	4	0	0	0	0	0	0	0	0	0
150088	8	40	17	0	0	0	0	0	0	0	0	0	0	0
150088	9	60	0	3	1	0	0	0	0	0	0	0	0	0
150088	10	40	27	0	1	0	0	0	0	0	0	0	0	0
150121	1	30	160	0	0	0	0	0	0	0	0	0	0	0
150121	1	40	50	0	0	0	0	0	0	0	0	0	0	0
150121	2	10	10	0	0	0	0	0	0	0	0	0	0	0
150121	2	40	701	0	0	0	0	0	0	0	0	0	0	0
150121	3	30	92	0	0	0	0	0	0	0	0	0	0	0
150121	3	50	3	7	2	0	0	0	0	0	0	0	0	0
150121	4	30	30	0	0	0	0	0	0	0	0	0	0	0
150121	4	50	341	22	2	0	0	0	0	0	0	0	0	0
150121	5	50	92	4	1	0	0	0	0	0	0	0	0	0
150121	6	60	0	0	10	0	0	0	0	0	0	0	0	0
150121	7	50	9	4	8	0	0	0	0	0	0	0	0	0
150121	8	40	32	10	1	0	0	0	0	0	0	0	0	0
150121	9	40	8	4	4	0	0	0	0	0	0	0	0	0
150121	10	50	1	1	13	0	0	0	0	0	0	0	0	0
160073	1	30	0	3	0	0	0	0	0	0	0	0	0	0
160073	2	60	150	0	0	0	0	0	0	0	0	0	0	0
160073	3	40	0	8	1	0	0	0	0	0	0	0	0	0
160073	4	40	115	0	0	0	0	0	0	0	0	0	0	0
160073	5	50	30	0	1	0	0	0	0	0	0	0	0	0
160073	6	30	39	0	0	0	0	0	0	0	0	0	0	0
160073	7	40	63	14	1	0	0	0	0	0	0	0	0	0
160073	8	40	105	2	1	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160073	8	50	22	1	0	0	0	0	0	0	0	0	0	0
160073	9	40	62	3	0	0	0	0	0	0	0	0	0	0
160073	10	40	41	11	2	0	0	0	0	0	0	0	0	0
160124	1	40	0	0	0	0	0	1	0	2	0	0	0	0
160102	1	60	60	2	0	0	0	0	0	0	0	0	0	0
160102	2	70	29	0	1	0	0	0	0	0	0	0	0	0
160102	3	70	1	1	0	0	0	0	0	0	0	0	0	0
160102	4	70	6	7	4	0	0	0	0	0	0	0	0	0
160102	5	40	60	3	0	0	0	0	0	0	0	0	0	0
160102	5	60	3	2	0	0	0	0	0	0	0	0	0	0
160102	6	40	0	3	2	0	0	0	0	0	0	0	0	0
160102	7	60	0	2	0	0	0	0	0	0	0	0	0	0
160102	7	70	0	4	0	0	0	0	0	0	0	0	0	0
160102	9	70	71	2	0	0	0	0	0	0	0	0	0	0
160102	10	40	1	0	0	0	0	0	0	0	0	0	0	0
160102	10	40	80	6	0	0	0	0	0	0	0	0	0	0
160113	1	50	0	3	8	0	0	0	0	0	0	0	0	0
160113	2	40	80	0	0	0	0	0	0	0	0	0	0	0
160113	3	30	152	9	0	0	0	0	0	0	0	0	0	0
160113	4	30	3	0	0	0	0	0	0	0	0	0	0	0
160113	5	40	10	1	0	0	0	0	0	0	0	0	0	0
160113	6	40	10	0	0	0	0	0	0	0	0	0	0	0
160113	7	20	1	0	0	0	0	0	0	0	0	0	0	0
160113	8	50	2	0	0	0	0	0	0	0	0	0	0	0
160113	9	30	10	0	2	0	0	0	0	0	0	0	0	0
160113	9	40	1	1	0	0	0	0	0	0	0	0	0	0
160216	1	70	250	3	3	0	0	0	0	0	0	0	0	0
160216	2	70	0	0	5	0	0	0	0	0	0	0	0	0
160216	3	70	0	2	0	0	0	0	0	0	0	0	0	0
160216	4	40	63	0	0	0	0	0	0	0	0	0	0	0
160216	5	40	75	1	0	0	0	0	0	0	0	0	0	0
160216	6	40	150	1	7	0	0	0	0	0	0	0	0	0
160216	7	70	10	7	6	0	0	0	0	0	0	0	0	0
160216	8	40	70	4	2	0	0	0	0	0	0	0	0	0
160216	9	60	0	1	3	0	0	0	0	0	0	0	0	0
160223	1	40	23	34	66	0	0	0	0	0	0	0	0	0
160223	1	50	29	6	1	0	0	0	0	0	0	0	0	0
160223	2	50	65	16	5	0	0	0	0	0	0	0	0	0
160223	3	40	0	5	6	0	0	0	0	0	0	0	0	0
160223	3	60	89	4	9	0	0	0	0	0	0	0	0	0
160223	4	50	0	8	35	0	0	0	0	0	0	0	0	0
160223	5	40	101	2	1	0	0	0	0	0	0	0	0	0
160223	6	40	30	7	0	0	0	0	0	0	0	0	0	0
160223	6	50	40	0	0	0	0	0	0	0	0	0	0	0
160223	7	40	2	19	0	0	0	0	0	0	0	0	0	0
160223	7	50	50	0	0	0	0	0	0	0	0	0	0	0
160223	8	40	10	2	0	0	0	0	0	0	0	0	0	0
160223	8	50	90	1	0	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160223	9	60	22	1	2	0	0	0	0	0	0	0	0	0
160223	10	60	76	0	0	0	0	0	0	0	0	0	0	0
160234	1	40	3	7	11	1	0	0	0	0	0	0	0	0
160234	1	60	11	5	0	0	0	0	0	0	0	0	0	0
160234	2	30	13	3	4	0	0	0	0	0	0	0	0	0
160234	3	40	33	30	29	3	0	0	0	0	0	0	0	0
160234	4	60	73	13	13	0	0	0	0	0	0	0	0	0
160234	5	60	51	17	2	0	0	0	0	0	0	0	0	0
160234	6	40	30	34	13	0	0	0	0	0	0	0	0	0
160234	7	60	16	10	0	0	0	0	0	0	0	0	0	0
160234	8	40	0	1	3	0	0	0	0	0	0	0	0	0
160234	10	40	0	2	7	0	0	0	0	0	0	0	0	0
Total			9920	578	385	6	0	0	0	0	0	3	0	0

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SPECIES:YELLOWTAIL ROCKFISH
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150056	7	50	0	0	0	0	2	0	0	0	0	0	0	0

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SPECIES:QUILLBACK ROCKFISH
SURVEY:PRELIMINARY

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160124	1	40	0	0	0	0	0	1	0	2	0	0	0	0
160124	2	40	0	1	0	0	0	0	0	0	0	0	0	0
160124	4	30	2	0	1	0	0	0	0	0	0	0	0	0
160124	7	50	0	1	0	0	0	0	0	0	0	0	0	0
160124	8	30	0	1	0	0	0	0	0	0	0	0	0	0
160124	9	30	1	0	0	0	0	0	0	0	0	0	0	0
160132	3	50	2	0	0	0	0	0	0	0	0	0	0	0
160132	4	30	1	0	0	0	0	0	0	0	0	0	0	0
160132	7	30	1	0	0	0	0	0	0	0	0	0	0	0
160201	1	70	0	3	1	0	1	0	0	0	0	0	0	0
160201	2	40	0	4	2	2	0	0	2	0	0	0	0	0
160201	2	70	0	10	0	3	0	1	0	0	0	0	0	0
160201	3	70	0	2	1	1	0	2	0	0	0	0	0	0
160201	4	40	0	20	4	1	0	0	0	0	0	0	0	0
160201	4	70	0	1	1	2	0	2	0	1	0	0	0	0
160201	6	70	3	2	0	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160201	8	70	0	10	1	7	1	6	0	0	0	0	0	0
160227	1	30	0	12	0	0	0	0	0	0	0	0	0	0
160227	3	20	1	0	0	0	0	0	0	0	0	0	0	0
160227	4	20	48	4	0	0	0	0	0	0	0	0	0	0
160227	6	30	0	0	1	0	0	0	0	0	0	0	0	0
160227	6	30	0	1	0	1	1	1	0	0	0	0	0	0
160234	1	60	1	14	0	0	0	0	0	0	0	0	0	0
160234	2	40	0	8	0	3	0	7	1	8	0	3	0	0
160234	2	60	0	1	1	0	0	2	0	0	0	0	0	0
160234	2	60	0	0	0	0	0	0	1	5	0	0	0	0
160234	3	30	0	27	0	3	0	7	0	2	1	2	0	0
160234	4	40	0	5	2	8	1	4	1	3	0	7	0	0
160234	4	60	0	3	0	5	0	5	0	6	0	2	0	0
160234	5	30	0	10	0	4	1	6	0	1	0	2	0	0
160234	6	30	0	2	0	1	0	2	0	3	0	0	0	0
160242	7	20	0	1	0	0	0	0	0	0	0	0	0	0
Total			63	143	15	41	5	45	5	29	1	16	0	0

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SPECIES:QUILLBACK ROCKFISH
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150006	2	70	4	18	5	0	0	0	0	0	0	0	0	0
150006	3	40	6	3	0	0	0	0	0	0	0	0	0	0
150006	3	70	1	3	0	0	0	0	0	0	0	0	0	0
150006	5	40	6	28	0	0	0	0	0	0	0	0	0	0
150006	6	70	15	2	1	0	0	0	0	0	0	0	0	0
150006	7	40	2	9	0	0	0	0	0	0	0	0	0	0
150006	8	40	7	10	0	0	0	0	0	0	0	0	0	0
150006	8	70	10	8	0	0	0	0	0	0	0	0	0	0
150006	9	70	4	1	0	0	0	0	0	0	0	0	0	0
150006	10	40	11	0	0	0	0	0	0	0	0	0	0	0
150027	1	50	2	3	0	0	0	0	0	0	0	0	0	0
150027	3	40	1	0	0	0	0	0	0	0	0	0	0	0
150027	4	40	5	5	4	0	0	0	0	0	0	0	0	0
150027	4	50	8	4	0	0	0	0	0	0	0	0	0	0
150027	5	40	15	21	9	0	0	0	0	0	0	0	0	0
150027	6	50	0	1	0	0	0	0	0	0	0	0	0	0
150027	7	40	1	25	3	0	0	0	0	0	0	0	0	0
150027	8	40	2	9	1	0	0	0	0	0	0	0	0	0
150027	9	60	2	0	0	0	0	0	0	0	0	0	0	0
150056	1	50	0	13	3	0	0	0	0	0	0	0	0	0
150056	2	50	39	45	22	0	0	0	0	0	0	0	0	0
150056	3	30	0	2	0	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150056	3	50	6	30	2	0	0	0	0	0	0	0	0	0
150056	4	10	2	8	0	0	0	0	0	0	0	0	0	0
150056	4	50	1	4	1	0	0	0	0	0	0	0	0	0
150056	6	40	9	26	3	0	0	0	0	0	0	0	0	0
150056	6	50	10	14	1	0	0	0	0	0	0	0	0	0
150056	7	50	23	20	5	0	0	0	0	0	0	0	0	0
150056	8	40	12	18	6	0	0	0	0	0	0	0	0	0
150056	8	50	0	3	0	0	0	0	0	0	0	0	0	0
150056	8	50	0	2	0	0	0	0	0	0	0	0	0	0
150056	9	50	6	5	1	0	0	0	0	0	0	0	0	0
150056	10	40	0	2	0	0	0	0	0	0	0	0	0	0
150060	1	40	3	11	2	0	0	0	0	0	0	0	0	0
150060	3	50	8	22	15	3	0	0	0	0	0	0	0	0
150060	4	30	14	11	0	0	0	0	0	0	0	0	0	0
150060	4	50	5	21	8	2	0	0	0	0	0	0	0	0
150060	5	40	0	8	2	0	0	0	0	0	0	0	0	0
150060	5	50	1	1	0	0	0	0	0	0	0	0	0	0
150060	6	70	2	9	0	0	0	0	0	0	0	0	0	0
150060	7	70	1	1	0	0	0	0	0	0	0	0	0	0
150060	8	70	3	3	0	0	0	0	0	0	0	0	0	0
150060	9	30	1	9	0	0	0	0	0	0	0	0	0	0
150060	9	70	2	2	0	0	0	0	0	0	0	0	0	0
150088	1	40	4	2	0	0	0	0	0	0	0	0	0	0
150088	3	40	2	3	0	0	0	0	0	0	0	0	0	0
150088	4	40	1	2	0	0	0	0	0	0	0	0	0	0
150088	6	40	8	1	0	0	0	0	0	0	0	0	0	0
150088	7	40	0	1	2	0	0	0	0	0	0	0	0	0
150088	8	40	0	1	0	0	0	0	0	0	0	0	0	0
150088	9	60	1	3	0	0	0	0	0	0	0	0	0	0
150088	10	40	5	17	4	0	0	0	0	0	0	0	0	0
150121	1	30	0	1	0	0	0	1	0	0	0	0	0	0
150121	1	40	0	0	3	0	0	1	0	0	0	0	0	0
150121	2	10	0	1	0	0	0	0	0	0	0	0	0	0
150121	2	40	2	0	0	2	0	0	0	0	0	0	0	0
150121	3	30	0	3	1	0	0	0	0	0	0	0	0	0
150121	3	50	0	0	0	1	0	0	0	0	0	0	0	0
150121	4	30	0	1	0	0	0	0	0	0	0	0	0	0
150121	6	60	1	4	8	0	0	0	0	0	0	0	0	0
150121	7	50	5	5	3	0	0	0	0	0	0	0	0	0
150121	8	40	29	19	0	0	0	0	0	0	0	0	0	0
150121	9	40	5	21	15	0	0	0	0	0	0	0	0	0
150121	10	50	3	3	5	0	0	0	0	0	0	0	0	0
150121	10	60	0	1	0	0	0	0	0	0	0	0	0	0
160073	1	30	6	16	2	0	0	0	0	0	0	0	0	0
160073	2	60	7	3	1	0	0	0	0	0	0	0	0	0
160073	3	40	4	12	0	0	0	0	0	0	0	0	0	0
160073	5	50	17	1	0	0	0	0	0	0	0	0	0	0
160073	7	40	3	1	1	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160073	8	40	1	6	0	0	0	0	0	0	0	0	0	0
160073	9	40	1	0	0	0	0	0	0	0	0	0	0	0
160073	10	40	15	0	0	0	0	0	0	0	0	0	0	0
160102	3	70	0	1	0	0	0	0	0	0	0	0	0	0
160102	6	40	2	8	0	0	0	0	0	0	0	0	0	0
160102	6	70	13	11	16	0	0	0	0	0	0	0	0	0
160102	7	60	3	2	0	0	0	0	0	0	0	0	0	0
160102	7	70	3	1	0	0	0	0	0	0	0	0	0	0
160102	8	70	0	2	1	0	0	0	0	0	0	0	0	0
160102	10	40	1	0	0	0	0	0	0	0	0	0	0	0
160102	10	40	1	2	0	0	0	0	0	0	0	0	0	0
160113	1	50	0	20	8	0	0	0	0	0	0	0	0	0
160113	2	40	45	7	0	0	0	0	0	0	0	0	0	0
160113	6	40	1	0	0	0	0	0	0	0	0	0	0	0
160113	9	30	12	43	1	0	0	0	0	0	0	0	0	0
160113	9	40	7	4	0	0	0	0	0	0	0	0	0	0
160216	1	70	8	9	1	0	0	0	0	0	0	0	0	0
160216	2	70	2	7	7	0	0	0	0	0	0	0	0	0
160216	3	70	5	13	1	0	0	0	0	0	0	0	0	0
160216	5	40	0	9	0	0	0	0	0	0	0	0	0	0
160216	6	40	6	8	0	0	0	0	0	0	0	0	0	0
160216	9	60	31	27	17	0	0	0	0	0	0	0	0	0
160216	10	60	15	14	3	0	0	0	0	0	0	0	0	0
160223	4	50	21	17	0	0	0	0	0	0	0	0	0	0
160223	5	40	39	25	0	0	0	0	0	0	0	0	0	0
160223	8	50	1	0	0	0	0	0	0	0	0	0	0	0
160223	10	60	2	0	0	0	0	0	0	0	0	0	0	0
160234	1	40	44	22	14	0	0	0	0	0	0	0	0	0
160234	2	30	6	5	3	0	0	0	0	0	0	0	0	0
160234	3	40	0	4	5	0	0	0	0	0	0	0	0	0
160234	6	40	0	33	15	0	0	0	0	0	0	0	0	0
160234	8	40	23	32	21	0	0	0	0	0	0	0	0	0
160234	9	40	31	66	30	0	0	0	0	0	0	0	0	0
160234	10	40	15	45	30	0	0	0	0	0	0	0	0	0
Total			708	1011	314	8	0	2	0	0	0	0	0	0

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SPECIES:TIGER ROCKFISH
SURVEY:PRELIMINARY

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160201	8	70	0	0	0	0	0	1	0	0	0	0	0	0
160234	2	40	0	0	0	0	0	1	0	1	0	0	0	0
160234	4	40	0	0	0	0	0	0	0	1	0	0	0	0
160234	4	60	0	0	0	0	0	1	0	0	0	0	0	0
160234	5	30	0	0	0	0	0	0	0	1	0	0	0	0
Total			0	0	0	0	0	3	0	3	0	0	0	0

Table 4 (cont'd)

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SPECIES:TIGER ROCKFISH
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150006	8	40	0	0	1	0	0	0	0	0	0	0	0	0
150006	8	70	0	0	0	1	0	0	0	0	0	0	0	0
150027	7	40	0	0	0	1	0	0	0	0	0	0	0	0
150027	8	40	0	0	3	1	0	0	0	0	0	0	0	0
150056	6	40	0	0	1	0	0	0	0	0	0	0	0	0
150060	1	40	0	0	0	1	0	0	0	0	0	0	0	0
150060	4	50	0	0	1	0	0	0	0	0	0	0	0	0
150088	1	40	0	0	1	0	1	0	0	0	0	0	0	0
150088	9	60	0	0	0	1	0	0	0	0	0	0	0	0
150088	10	40	0	0	0	1	0	0	0	0	0	0	0	0
150121	9	40	0	0	2	0	0	0	0	0	0	0	0	0
160073	1	30	0	3	0	0	0	0	0	0	0	0	0	0
160073	7	40	0	0	1	0	0	0	0	0	0	0	0	0
160113	1	50	0	1	1	0	0	0	0	0	0	0	0	0
160216	2	70	0	0	1	0	0	0	0	0	0	0	0	0
160216	9	60	0	0	1	0	0	0	0	0	0	0	0	0
160223	4	50	0	0	2	0	0	0	0	0	0	0	0	0
160234	1	40	0	1	0	0	0	0	0	0	0	0	0	0
160234	1	60	0	1	0	0	0	0	0	0	0	0	0	0
160234	3	40	0	0	2	0	0	0	0	0	0	0	0	0
160234	8	40	0	0	5	0	0	0	0	0	0	0	0	0
160234	9	40	0	2	7	0	0	0	0	0	0	0	0	0
160234	10	40	0	0	3	0	0	0	0	0	0	0	0	0
Total			0	8	32	6	1	0	0	0	0	0	0	0

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SPECIES:YELLOWEYE ROCKFISH
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150006	1	70	0	1	0	0	0	0	0	0	0	0	0	0
150006	2	70	1	0	0	0	0	0	0	0	0	0	0	0
150006	5	40	0	1	0	0	0	0	0	0	0	0	0	0
150006	8	40	0	1	1	0	0	0	0	0	0	0	0	0
150006	8	70	0	2	0	0	0	0	0	0	0	0	0	0
150027	8	40	0	1	0	0	0	0	0	0	0	0	0	0
150056	1	50	0	2	0	0	0	0	0	0	0	0	0	0
150056	2	50	2	2	0	0	0	0	0	0	0	0	0	0
150056	4	50	0	1	0	0	0	0	0	0	0	0	0	0
150056	7	50	0	1	0	0	0	0	0	0	0	0	0	0
150060	4	50	1	1	0	0	0	0	0	0	0	0	0	0
150060	9	70	0	1	0	0	0	0	0	0	0	0	0	0
160113	1	50	0	1	2	0	0	0	0	0	0	0	0	0
Total			4	15	3	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

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SPECIES:KELP GREENLING
SURVEY:PRELIMINARY

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160124	3	30	0	0	0	1	0	1	0	0	0	0	0	0
160124	3	60	0	0	0	1	0	0	0	0	0	0	0	0
160124	4	30	0	0	0	1	0	0	0	0	0	1	0	0
160124	5	30	0	1	0	0	0	0	0	0	0	0	0	0
160124	7	50	0	0	0	0	0	2	0	0	0	0	0	0
160124	8	30	0	0	0	0	0	0	0	2	0	0	0	0
160132	4	30	0	0	0	0	0	1	0	0	0	0	0	0
160132	5	30	0	0	0	1	0	1	0	0	0	0	0	0
160132	7	30	0	1	0	0	1	2	0	0	0	0	0	0
160132	7	60	0	0	0	0	0	0	0	1	0	0	0	0
160201	1	70	0	0	0	0	1	2	0	0	0	0	0	0
160201	2	70	0	0	0	0	0	1	0	0	0	0	0	0
160201	3	70	0	0	0	0	1	0	0	0	0	0	0	0
160201	6	40	0	0	0	1	0	0	0	0	0	0	0	0
160201	7	70	0	0	0	0	1	0	0	0	0	0	0	0
160201	8	70	0	0	0	0	1	1	0	1	0	0	0	0
160201	10	40	0	0	0	0	0	1	0	0	0	0	0	0
160227	3	20	0	0	0	0	0	1	0	0	0	0	0	0
160227	6	30	0	0	0	0	0	0	0	1	0	0	0	0
160227	8	50	0	0	0	0	0	1	0	0	0	0	0	0
160227	9	50	0	0	0	1	0	1	0	0	0	0	0	0
160227	10	40	0	0	4	3	0	3	0	0	0	0	0	0
160234	2	60	0	0	0	0	0	0	0	1	0	0	0	0
160234	4	40	0	0	0	0	0	1	0	0	0	0	0	0
160242	1	30	0	0	0	0	0	0	0	0	0	0	0	1
160242	2	30	0	0	0	0	0	0	0	0	0	0	0	1
160242	3	30	0	0	0	0	0	0	0	0	0	0	0	2
160242	4	30	0	0	0	1	0	0	0	0	0	0	0	0
160242	5	30	0	0	0	1	0	0	0	0	0	0	0	0
Total			0	2	4	11	5	19	0	6	0	1	0	4

Table 4 (cont'd)

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SPECIES:KELP GREENLING
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150006	1	70	0	0	0	1	1	0	0	0	0	0	0	0
150006	3	40	0	0	0	0	1	0	0	0	0	0	0	0
150006	4	40	1	0	0	0	0	0	0	0	0	0	0	0
150006	6	70	0	0	1	0	0	0	0	0	0	0	0	0
150006	8	40	0	0	1	0	0	0	0	0	0	0	0	0
150006	8	70	0	0	0	1	0	0	0	0	0	0	0	0
150006	9	70	0	0	1	0	0	0	0	0	0	0	0	0
150006	10	40	0	0	1	0	0	0	0	0	0	0	0	0
150027	1	50	0	0	1	0	0	0	0	0	0	0	0	0
150027	2	20	0	2	0	0	0	0	0	0	0	0	0	0
150027	2	20	0	0	0	1	0	0	0	0	0	0	0	0
150027	4	50	0	0	1	0	0	0	0	0	0	0	0	0
150027	5	40	0	0	1	0	1	0	0	0	0	0	0	0
150027	8	40	0	0	0	1	0	0	0	0	0	0	0	0
150027	9	60	0	1	0	0	1	0	0	0	0	0	0	0
150056	2	50	0	0	1	0	0	0	0	0	0	0	0	0
150056	4	50	0	1	1	0	0	0	0	0	0	0	0	0
150056	5	50	0	1	0	1	0	0	0	0	0	0	0	0
150056	7	50	1	1	1	1	0	0	0	0	0	0	0	0
150056	8	50	0	1	0	1	0	0	0	0	0	0	0	0
150056	10	40	0	0	1	0	0	0	0	0	0	0	0	0
150060	6	70	0	2	1	0	0	0	0	0	0	0	0	0
150060	9	70	0	0	0	1	0	0	0	0	0	0	0	0
150060	10	70	0	0	1	2	0	0	0	0	0	0	0	0
150088	1	40	0	0	1	0	2	0	0	0	0	0	0	0
150088	3	40	0	1	0	1	0	0	0	0	0	0	0	0
150088	4	40	0	0	0	0	1	0	0	0	0	0	0	0
150088	5	40	0	0	0	1	1	0	0	0	0	0	0	0
150088	5	50	0	0	0	1	0	0	0	0	0	0	0	0
150088	6	30	0	0	1	0	0	0	0	0	0	0	0	0
150088	7	40	0	0	3	0	0	0	0	0	0	0	0	0
150088	8	40	0	0	2	0	0	0	0	0	0	0	0	0
150088	9	60	0	0	2	0	0	0	0	0	0	0	0	0
150088	10	40	0	0	2	0	0	0	0	0	0	0	0	0
150121	1	30	0	0	1	0	0	0	0	0	0	0	0	0
150121	1	40	0	0	0	0	1	0	0	0	0	0	0	0
150121	2	40	0	0	0	1	1	0	0	0	0	0	0	0
150121	3	50	0	0	0	0	1	0	0	0	0	0	0	0
150121	5	50	0	0	3	0	0	0	0	0	0	0	0	0
150121	6	60	0	0	2	3	0	0	0	0	0	0	0	0
150121	7	50	0	0	1	1	0	0	0	0	0	0	0	0
150121	9	40	0	0	1	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150121	10	50	0	0	1	0	0	0	0	0	0	0	0	0
150121	10	60	0	0	0	1	0	0	0	0	0	0	0	0
160073	1	30	0	0	1	0	0	0	0	0	0	0	0	0
160073	3	40	0	0	2	0	0	0	0	0	0	0	0	0
160073	4	40	0	0	1	0	0	0	0	0	0	0	0	0
160073	5	50	0	0	1	0	0	0	0	0	0	0	0	0
160073	6	30	0	0	1	0	0	0	0	0	0	0	0	0
160073	7	40	0	0	1	0	0	0	0	0	0	0	0	0
160073	8	40	0	0	1	0	0	0	0	0	0	0	0	0
160073	9	40	0	0	1	1	0	0	0	0	0	0	0	0
160102	1	60	0	0	2	0	0	0	0	0	0	0	0	0
160102	2	70	0	1	1	0	0	0	0	0	0	0	0	0
160102	3	70	0	0	2	0	0	0	0	0	0	0	0	0
160102	4	70	0	0	1	2	1	0	0	0	0	0	0	0
160102	5	40	0	0	1	0	0	0	0	0	0	0	0	0
160102	5	60	0	1	1	0	0	0	0	0	0	0	0	0
160102	6	70	0	0	1	0	0	0	0	0	0	0	0	0
160102	7	60	0	1	0	0	0	0	0	0	0	0	0	0
160102	7	70	0	0	2	0	0	0	0	0	0	0	0	0
160102	8	70	0	0	1	2	0	0	0	0	0	0	0	0
160102	9	70	0	0	4	0	0	0	0	0	0	0	0	0
160102	10	40	0	0	2	0	0	0	0	0	0	0	0	0
160113	1	50	0	0	3	0	1	0	0	0	0	0	0	0
160113	2	40	0	0	0	3	0	0	0	0	0	0	0	0
160113	3	30	0	2	5	0	0	0	0	0	0	0	0	0
160113	4	30	0	9	0	0	0	0	0	0	0	0	0	0
160113	5	40	0	0	2	2	0	0	0	0	0	0	0	0
160113	6	40	0	0	2	1	1	0	0	0	0	0	0	0
160113	7	20	0	0	2	0	0	0	0	0	0	0	0	0
160113	8	50	0	0	4	0	0	0	0	0	0	0	0	0
160113	9	40	0	0	1	0	0	0	0	0	0	0	0	0
160113	10	20	0	1	1	0	0	0	0	0	0	0	0	0
160216	1	70	0	0	0	1	0	0	0	0	0	0	0	0
160216	2	70	0	0	1	1	1	0	0	0	0	0	0	0
160216	3	70	0	0	0	1	0	0	0	0	0	0	0	0
160216	4	40	0	2	1	0	0	0	0	0	0	0	0	0
160216	5	40	0	0	1	0	0	0	0	0	0	0	0	0
160216	6	40	0	0	0	0	0	0	1	0	0	0	0	0
160216	7	70	0	1	0	0	0	0	0	0	0	0	0	0
160216	7	70	0	0	1	0	0	0	0	0	0	0	0	0
160216	8	40	0	0	3	0	0	0	0	0	0	0	0	0
160216	9	60	0	0	1	1	0	0	0	0	0	0	0	0
160216	10	60	0	0	0	1	0	0	0	0	0	0	0	0
160223	1	40	0	0	0	1	0	0	0	0	0	0	0	0
160223	1	50	0	0	1	0	0	0	0	0	0	0	0	0
160223	2	50	0	0	1	0	0	0	0	0	0	0	0	0
160223	3	40	0	0	2	0	1	0	0	0	0	0	0	0
160223	3	60	0	0	1	0	0	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160223	4	50	0	0	1	0	0	0	0	0	0	0	0	0
160223	6	40	0	0	1	0	0	0	0	0	0	0	0	0
160223	7	50	0	0	0	1	0	0	0	0	0	0	0	0
160223	8	50	0	0	4	1	0	0	0	0	0	0	0	0
160234	1	40	0	0	0	0	1	0	0	0	0	0	0	0
160234	2	30	0	0	0	0	1	0	0	0	0	0	0	0
160234	3	40	0	0	0	2	1	0	0	0	0	0	0	0
160234	4	60	0	0	0	0	3	1	0	0	0	0	0	0
160234	5	60	0	0	0	0	1	1	0	0	0	0	0	0
160234	6	40	0	0	0	2	1	0	0	0	0	0	0	0
160234	7	60	0	0	1	0	0	0	0	0	0	0	0	0
160234	8	40	0	0	0	1	0	0	0	0	0	0	0	0
160234	9	40	0	0	1	0	0	0	0	0	0	0	0	0
160234	10	40	0	0	0	0	1	0	1	0	0	0	0	0
Total			2	28	101	43	25	2	2	0	0	0	0	0

Table 4 (cont'd)

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SPECIES:LINGCOD
SURVEY:PRELIMINARY

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60	70	80
160124	1	40	0	0	0	0	0	0	0	0	0	0	0	0	0	1
160124	3	30	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160124	7	50	0	0	0	0	0	0	1	0	0	0	0	1	0	0
160132	1	50	0	0	0	0	0	0	0	0	1	0	0	0	0	0
160132	3	50	0	0	0	0	0	1	0	0	0	0	0	0	0	0
160132	4	30	0	0	0	0	0	1	0	0	0	0	0	0	0	0
160132	5	30	0	0	0	0	0	2	0	0	0	0	0	0	0	0
160132	6	30	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160132	6	60	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160132	7	30	0	0	0	0	0	1	0	0	1	1	0	0	0	0
160201	2	70	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160201	3	70	0	0	0	0	0	1	0	0	0	0	0	0	0	0
160201	4	70	0	0	0	0	0	0	0	0	0	0	0	1	0	0
160201	8	70	0	0	0	0	0	1	1	2	0	0	0	0	0	0
160227	1	30	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160227	2	20	0	0	0	0	0	1	0	0	0	0	0	0	0	0
160227	3	20	0	0	0	0	0	0	0	0	0	1	0	0	0	0
160227	5	30	0	0	0	0	0	0	0	0	0	1	0	0	0	0
160227	6	30	0	0	0	0	0	0	0	0	0	1	0	0	0	0
160227	7	30	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160227	8	50	0	0	0	0	0	1	0	0	0	0	0	0	0	0
160234	1	60	0	0	0	1	1	1	1	0	0	0	0	0	0	0
160234	2	40	0	0	0	0	0	2	0	1	0	1	0	0	0	0
160234	2	60	0	0	0	0	0	1	0	1	0	0	0	1	0	0
160234	2	60	0	0	0	0	0	0	0	1	0	1	0	0	0	0
160234	4	40	0	0	0	0	0	0	0	0	0	1	0	1	0	0
160234	5	30	0	0	0	0	0	0	0	0	0	1	0	0	0	0
160234	6	30	0	0	0	0	0	0	0	0	0	1	0	2	1	0
160242	3	30	0	0	0	0	0	0	0	1	0	0	0	0	0	0
160242	5	30	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Total			0	0	0	1	1	14	3	12	2	9	0	6	1	1

Table 4 (cont'd)

****
SPECIES:LINGCOD
SURVEY:CONTRACT

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
150006	1	70	0	0	0	0	0	1	1	0	0	0	0	0
150006	2	70	0	0	0	0	0	0	1	0	0	0	0	0
150006	3	40	0	0	1	1	0	0	1	0	0	0	0	0
150006	5	40	0	0	0	1	0	1	0	0	0	0	0	0
150006	7	40	0	0	0	0	1	0	1	0	1	0	0	0
150006	10	40	0	0	0	0	0	0	1	0	0	0	0	0
150027	1	50	0	0	0	0	0	1	1	0	0	0	0	0
150027	2	20	0	0	1	0	1	0	0	0	0	0	0	0
150027	4	50	0	0	0	2	0	0	0	0	1	0	0	0
150027	5	40	0	0	1	0	0	0	0	0	0	0	0	0
150027	7	20	0	0	0	1	0	0	0	0	0	0	0	0
150027	8	40	0	0	0	0	1	0	0	0	0	0	0	0
150056	1	50	0	0	0	0	0	0	1	0	0	0	0	0
150056	2	50	0	0	0	0	0	0	1	0	0	0	0	0
150056	3	50	0	0	0	0	1	1	1	0	0	0	0	0
150056	6	40	0	0	0	0	1	0	0	0	0	0	0	0
150056	10	40	0	0	0	1	0	0	0	1	0	0	0	0
150060	1	40	0	0	0	0	0	0	1	0	0	0	0	0
150060	2	40	0	0	0	0	0	0	1	0	1	0	0	0
150060	4	50	0	0	0	0	0	0	1	0	0	0	0	0
150060	6	70	0	0	0	1	0	0	0	0	0	0	0	0
150088	1	40	0	0	0	0	0	1	1	0	0	0	0	0
150088	2	50	0	0	0	0	1	0	0	0	0	0	0	0
150088	7	40	0	0	0	1	0	0	0	0	0	0	0	0
150088	9	60	0	0	2	1	0	0	0	0	0	0	0	0
150121	3	30	0	1	0	0	0	0	0	0	0	0	0	0
150121	4	50	0	0	0	0	0	1	0	0	0	0	0	0
150121	9	40	0	0	0	1	0	0	1	1	1	0	0	0
150121	10	60	0	0	0	0	0	0	0	0	0	1	0	0
160073	2	60	0	0	0	0	0	0	0	0	1	0	0	0
160073	3	40	0	0	0	0	1	0	0	0	0	0	0	0
160073	7	40	0	0	0	1	0	0	0	0	0	0	0	0
160102	1	60	0	0	0	1	0	0	0	0	0	0	0	0
160102	2	70	0	0	0	1	0	0	0	0	0	0	0	0
160102	3	70	0	0	0	3	2	0	0	0	0	0	0	0
160102	4	70	0	0	1	0	0	1	0	0	0	0	0	0
160102	5	40	0	0	0	1	0	0	0	0	0	0	0	0
160102	6	70	0	0	1	0	0	0	0	0	0	0	0	0
160102	7	60	0	0	0	1	0	0	0	0	0	0	0	0
160102	7	70	0	0	0	1	1	0	0	0	0	0	0	0
160113	1	50	0	0	0	1	1	0	0	0	0	0	0	0
160113	2	40	0	0	0	9	4	0	0	0	0	0	0	0

Table 4 (cont'd)

SITE	TR	HA	5	10	15	20	25	30	35	40	45	50	55	60
160113	3	30	0	1	1	0	0	0	0	0	0	0	0	0
160113	6	40	0	0	0	0	1	1	0	0	0	0	0	0
160113	7	20	0	0	0	0	0	1	0	0	0	0	0	0
160113	8	50	0	0	0	1	1	0	0	0	0	0	0	0
160113	9	40	0	0	1	0	0	0	0	0	0	0	0	0
160216	2	70	0	0	0	0	0	1	3	1	0	0	0	0
160216	3	70	0	0	0	0	1	0	1	0	0	0	0	0
160216	4	40	0	0	0	0	0	0	0	0	1	0	0	0
160216	5	40	0	0	0	0	0	2	1	1	1	0	0	0
160216	6	40	0	0	0	0	0	0	1	0	0	0	0	0
160216	8	40	0	0	0	0	2	0	1	1	0	0	0	0
160216	10	60	0	0	0	0	0	0	0	0	1	0	0	0
160223	2	50	0	0	0	0	1	0	0	0	0	0	0	0
160223	5	40	0	0	0	0	0	0	1	0	0	0	1	1
160223	7	40	0	0	0	0	0	1	0	0	0	0	0	0
160223	7	50	0	0	0	0	1	0	0	0	0	0	0	0
160223	8	50	0	0	0	1	1	0	1	0	0	0	0	0
160223	9	60	0	0	0	0	1	0	0	0	0	0	0	0
160234	1	40	0	0	0	0	0	1	0	0	0	0	0	0
160234	4	60	0	0	0	1	1	0	0	0	0	0	0	0
160234	6	40	0	0	0	0	1	0	1	0	0	0	0	0
160234	8	40	0	0	0	0	1	1	1	1	0	0	0	0
160234	9	40	0	0	0	0	0	0	1	0	0	0	0	0
160234	10	40	0	0	0	0	2	1	0	0	0	0	0	0
Total			0	2	9	32	29	16	26	6	8	1	1	1

Table 5. Site, transect number, dive depth (m) and salinity (°/$_{oo}$) for samples taken during the contract survey.

SITE	TR	DP	SALIN
150006	6	15	28.76
150006	7	15	28.60
150006	8	18	28.93
150006	8	18	28.93
150006	9	18	28.66
150006	9	18	28.66
150006	10	15	28.61
150027	6	15	28.90
150027	7	15	28.65
150027	8	15	28.71
150027	9	11	27.48
150027	10	11	27.59
150056	6	15	28.82
150056	7	15	28.71
150056	8	12	28.83
150056	9	12	28.72
150056	10	11	28.54
150060	6	12	28.60
150060	6	12	28.60
150060	7	11	28.88
150060	8	19	28.92
150060	9	18	23.96
150060	10	12	28.63
150088	6	15	29.12
150088	7	11	28.98
150088	8	11	25.93
150088	9	18	29.50
150088	10	18	29.08
150121	6	18	29.47
150121	7	18	29.60
150121	8	16	29.30
150121	9	18	28.62
150121	10	18	28.70
160073	1	20	29.50
160073	2	20	29.25
160073	3	16	29.20
160073	4	11	28.50
160073	5	15	29.29
160073	6	15	29.20
160073	7	12	29.08
160073	8	12	29.11
160073	9	10	28.98

Table 5 (cont'd)

SITE	TR	DP	SALIN
160073	10	11	28.00
160102	6	20	29.52
160102	7	19	29.80
160102	8	19	29.63
160102	9	12	29.23
160102	10	11	28.81
160113	6	12	29.12
160113	7	10	28.43
160113	8	9	24.96
160113	9	20	29.08
160113	10	16	28.96
160216	1	15	30.32
160216	2	15	30.33
160216	4	9	29.99
160216	5	9	29.78
160216	6	12	28.40
160216	7	12	28.48
160216	8	12	29.20
160216	9	20	29.99
160216	10	17	29.64
160223	4	15	30.43
160223	5	15	30.50
160223	6	10	30.18
160223	7	9	29.80
160233	8	12	28.38
160233	9	12	28.31
160233	10	10	28.50
160234	6	12	28.30
160234	7	12	27.94
160234	8	18	29.91
160234	9	18	30.33
160234	10	16	30.10

Table 6. A check list of invertebrate species by transect and habitat type for each transect covered by the contract survey. For a description of habitat types see Table 1. A species is recorded as '1' observed or '0' not observed. Line numbers correspond to species codes listed in Appendix 1.

SITE:150006														
TRANSECT:	1	2	3	3	4	5	6	6	6	7	7	8	10	10
HABITAT:	70	50	40	50	50	50	50	40	50	40	70	50	40	70
1	1	0	0	0	0	0	1	0	0	1	1	1	0	1
2	0	1	0	1	0	0	1	1	0	1	1	1	0	0
3	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	0	1	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	1	0	1	1	1	1	0	0
9	0	0	0	0	0	0	1	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	1	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	1	0	0	0	1	1	0	0
16	0	0	0	0	1	0	0	0	0	0	0	0	1	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1	0	0	0	0	0	1	0	0	0	0	0	0	0
19	0	0	1	0	1	1	1	1	0	1	1	1	1	0
20	0	1	0	0	0	0	1	1	0	0	0	1	0	0
21	0	0	0	1	0	0	1	0	0	0	0	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	1	0	0	0	0	0	0	1	0
25	1	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	1	0	0	0	1	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	1	1	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 150006														
TRANSECT:	1	2	3	3	4	5	6	6	6	7	7	8	10	10
HABITAT:	70	50	40	50	50	50	50	40	50	40	70	50	40	70
34	0	1	0	0	0	0	0	0	0	0	0	0	0	0
35	1	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	1	0	0	0	0	0	1	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	1	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	1	0	0	0	0	0	0	1
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	1	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	1	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	1	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	1	0	1	0	0	0	1	1	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	1	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	1	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	1	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	1	1	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 150006														
TRANSECT:	1	2	3	3	4	5	6	6	6	7	7	8	10	10
HABITAT:	70	50	40	50	50	50	50	40	50	40	70	50	40	70
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0	0	0	0	1	0
80	0	0	0	0	0	1	0	0	0	0	0	0	0	0
81	1	1	1	1	1	1	1	0	1	1	1	1	1	0
82	1	1	0	1	1	1	1	0	0	1	1	1	1	1
83	1	0	0	0	0	1	0	1	0	1	1	1	0	0
84	1	1	0	0	1	1	1	1	1	1	0	1	0	1
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	1	1	1	1	1	1	1	0	0	0	1	1	1
87	1	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	1	1	1	0	1	0	1	0	0	0	0	0	1	1
90	0	0	0	0	0	0	0	0	0	0	0	1	0	0
91	1	0	0	0	1	0	1	1	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	1	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	1	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	1	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	1	0	0	0	1	1	0	0
99	1	1	1	1	1	1	1	1	0	1	0	1	0	1
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	1	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	1	0	0	0	0	0	1	0	0	0	0	1	0	0
104	1	0	0	0	1	1	1	1	1	0	1	1	1	0
105	0	1	0	1	1	1	1	1	1	1	1	0	0	0
106	0	1	0	1	1	1	1	1	1	0	0	0	0	1
107	0	0	0	0	0	0	0	0	0	0	0	0	1	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 150027																
TRANSECT:	1	2	3	3	3	4	4	5	6	7	7	8	9	9	10	10
HABITAT:	50	30	10	40	50	40	70	40	50	20	40	40	20	50	10	50
1	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	1
2	0	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
17	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
19	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1
20	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
21	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
31	1	1	0	1	0	0	0	0	0	0	1	1	1	1	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Table 6 (cont')

SITE:150027																
TRANSECT:	1	2	3	3	3	4	4	5	6	7	7	8	9	9	10	10
HABITAT:	50	30	10	40	50	40	70	40	50	20	40	40	20	50	10	50
42	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
55	0	0	0	0	1	0	1	1	1	0	0	1	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	1	0	0	1	1	1	1	0	1	1	0	0	0	1	1
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1
80	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
81	1	1	0	1	0	1	0	1	1	0	0	1	1	1	0	1
82	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1

Table 6 (cont'd)

SITE: 150027																
TRANSECT:	1	2	3	3	3	4	4	5	6	7	7	8	9	9	10	10
HABITAT:	50	30	10	40	50	40	70	40	50	20	40	40	20	50	10	50
83	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1
84	1	0	0	1	0	1	0	1	0	0	0	1	1	1	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	1	1	0	1	1	0	1	1	1	0	0	1	1	1	0	1
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1
89	1	1	0	1	0	0	0	1	0	0	0	1	1	1	1	1
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	1	0	1	1	1	0	1	0	0	0	0	1	0	0	1	0
92	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
94	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
95	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
99	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
103	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
105	1	1	0	1	1	1	0	0	1	1	0	1	0	0	0	0
106	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1
107	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	1
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1

Table 6 (cont'd)

SITE: 150056															
TRANSECT:	1	2	3	4	4	5	5	6	6	7	8	8	9	10	10
HABITAT:	50	50	50	30	50	30	50	40	70	70	50	70	70	40	50
1	1	1	1	0	1	0	0	0	1	1	0	0	1	0	0
2	1	1	1	0	1	0	0	1	0	1	0	1	1	1	1
3	1	1	0	0	1	0	0	0	1	1	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
6	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
19	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
20	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1
21	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0

Table 6 (cont'd)

	SITE:150056														
TRANSECT:	1	2	3	4	4	5	5	6	6	7	8	8	9	10	10
HABITAT:	50	50	50	30	50	30	50	40	70	70	50	70	70	40	50
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	1	0	1	0	1	0	0	0	1	0	1
55	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	1	1	0	0	1	1	0	0	1	1	0	1	1	0

Table 6 (cont'd)

SITE:150056															
TRANSECT:	1	2	3	4	4	5	5	6	6	7	8	8	9	10	10
HABITAT:	50	50	50	30	50	30	50	40	70	70	50	70	70	40	50
80	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
81	1	0	1	0	0	0	1	1	0	1	1	1	1	0	1
82	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1
83	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
84	1	1	0	0	1	0	0	1	1	1	1	1	1	1	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	1	0	1	0	1	0	1	1	1	1	1	1	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
90	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
91	0	0	0	0	1	0	1	1	0	1	1	0	0	1	1
92	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
94	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
95	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
99	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1
100	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0
101	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
102	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
104	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
105	1	0	0	0	1	0	0	1	1	0	1	1	1	1	1
106	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0
107	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 150060														
TRANSECT:	1	2	3	4	4	5	5	6	6	7	8	9	9	10
HABITAT:	30	40	50	30	50	40	50	50	70	60	70	30	70	70
1	0	0	1	0	1	0	0	0	0	0	1	0	1	1
2	1	0	1	0	1	0	1	0	0	1	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	1	1	0	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	1	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	1	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	0	1	0	0	0	1	1	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	1	1	0	1	1	1	1	0	0	0	0	1	1
20	0	0	1	0	0	0	1	0	0	0	0	0	0	0
21	0	0	1	1	0	0	0	1	0	0	1	0	1	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	1	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	1	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	1	0	0	0
29	0	0	0	0	0	0	0	0	1	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	1	1	0	0	0	0	0	0	0	1	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	1	1	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	1	1	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	1	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Table 6 (cont'd)

SITE: 150060														
TRANSECT:	1	2	3	4	4	5	5	6	6	7	8	9	9	10
HABITAT:	30	40	50	30	50	40	50	50	70	60	70	30	70	70
42	0	0	0	0	0	0	0	0	0	1	1	0	0	1
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	1	0	0	0	1
45	1	1	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	1	0	0	1	0	0	0	1
55	0	0	0	0	0	0	0	1	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	1	0	0	0	0	0	0	0	0	0	0	0	0
60	0	1	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	1	0	0	0	0	0	0	1	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	1	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	1	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	1	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	1	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	1	1	1	1	0	0	0	0	1	0	0	0	1	1
80	1	0	0	0	0	0	1	0	0	1	0	0	0	0
81	1	1	1	0	1	1	0	1	1	1	1	0	1	1
82	1	1	1	1	1	1	1	0	1	1	1	1	1	1

Table 6 (cont'd)

SITE: 150060														
TRANSECT:	1	2	3	4	4	5	5	6	6	7	8	9	9	10
HABITAT:	30	40	50	30	50	40	50	50	70	60	70	30	70	70
83	0	0	0	0	0	0	0	0	0	0	1	0	0	0
84	0	0	0	0	1	0	0	0	0	0	1	0	1	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	1	1	0	1	1	1	1	1	1	0	1	1
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	1	0	0	0	0	0	0	0
89	0	1	1	0	0	0	1	0	0	0	0	0	0	1
90	0	0	0	0	0	0	0	0	0	0	0	0	1	1
91	1	1	0	0	1	0	0	0	1	0	0	1	1	1
92	0	0	1	0	0	0	1	0	0	1	0	0	1	0
93	0	0	0	0	0	0	0	0	0	0	1	0	0	0
94	0	0	0	0	0	0	0	0	0	0	1	0	0	0
95	1	0	0	0	0	1	0	0	0	0	1	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	1	0	0	0	0	0
99	1	1	1	0	1	0	1	1	0	1	1	0	1	1
100	0	0	1	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	1	0	0	0	0	0
102	0	0	1	0	0	0	0	0	0	0	0	0	0	0
103	1	0	0	1	0	0	0	0	0	0	0	0	0	0
104	0	0	1	0	0	1	0	1	0	1	1	1	1	1
105	1	1	1	0	1	1	1	1	1	1	1	1	1	1
106	0	0	0	0	0	1	0	1	1	1	0	1	0	1
107	0	0	0	0	0	0	0	1	0	1	0	0	0	1
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Table 6 (cont'd)

SITE: 150088													
TRANSECT:	1	2	2	3	4	5	5	6	6	7	8	9	10
HABITAT:	50	20	50	30	50	40	50	30	50	50	50	50	50
1	1	0	1	0	0	0	0	0	0	0	0	1	1
2	0	0	1	0	0	0	0	0	0	1	0	1	1
3	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	1	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	1	1	1	1	0
9	0	0	0	0	0	0	0	0	0	0	0	1	0
10	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	0	1	0	1	0	0	0	0	1	0	1	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	1	0	0	0	0	1	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	1	1	0	0	0
19	1	1	1	1	1	0	0	1	1	1	0	1	0
20	0	0	0	0	0	0	0	0	0	0	0	0	1
21	1	0	0	0	0	0	0	0	1	0	0	0	0
22	0	0	0	0	0	0	0	0	0	1	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	1	0	0	1	0	1	1
25	0	0	1	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1	0	0	0	0	0	0	0	0	0	0	1	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1	0	0	0	0	0	0	0	1	0	0	0	0
31	0	0	0	1	1	1	1	0	1	1	1	1	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	1	1	0	0	1	1	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	1	0	1	0	0	1	1	0	0

Table 6 (cont'd)

SITE: 150088													
TRANSECT:	1	2	2	3	4	5	5	6	6	7	8	9	10
HABITAT:	50	20	50	30	50	40	50	30	50	50	50	50	50
39	0	0	1	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	1	0	0	0	0	0	0	1	1	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	1	1	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	1	0	0	0
51	0	0	0	0	1	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	1	0	0	0	0	0	0	0	0
54	1	0	1	1	1	1	0	0	1	1	1	1	1
55	1	0	1	1	1	1	0	0	1	0	1	1	1
56	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	1	0	0	0
59	0	0	0	1	0	0	0	0	1	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	1	0	0	1
62	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	1	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	1	1	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	1	1	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	1	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0
79	1	1	0	0	1	0	0	0	1	1	0	1	1

Table 6 (cont'd)

SITE: 150088													
TRANSECT:	1	2	2	3	4	5	5	6	6	7	8	9	10
HABITAT:	50	20	50	30	50	40	50	30	50	50	50	50	50
80	0	0	0	0	0	1	0	0	0	0	0	0	0
81	1	0	1	1	1	1	1	0	1	1	1	1	1
82	1	1	1	1	1	1	1	1	1	1	1	1	1
83	0	0	0	0	0	0	0	0	0	0	0	1	1
84	0	0	0	1	0	0	0	0	1	1	1	0	1
85	0	0	0	0	0	0	0	0	1	0	1	0	0
86	1	0	1	1	1	1	1	0	1	1	1	1	1
87	0	0	1	0	1	0	0	0	0	0	0	0	0
88	1	1	1	0	0	0	0	0	0	0	0	0	0
89	1	0	1	1	0	1	0	0	1	1	0	0	0
90	0	0	0	0	0	0	0	0	1	0	0	1	1
91	1	0	1	1	1	1	0	0	1	1	1	0	0
92	1	0	0	0	0	1	1	0	1	1	1	0	0
93	0	0	0	0	0	0	0	0	1	0	0	1	0
94	0	0	0	0	0	0	0	1	1	1	0	0	0
95	1	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	1	0	1	0	0	0	1	0	0	0
99	1	0	1	1	1	1	1	0	1	1	1	1	1
100	0	0	0	0	0	0	0	0	0	1	0	0	0
101	0	0	0	0	1	0	0	0	1	0	1	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	1	0	1	0	1
104	1	0	1	1	1	0	1	0	0	0	1	0	1
105	1	0	0	1	1	0	0	0	1	0	0	1	0
106	0	0	0	0	0	1	0	0	0	1	1	1	1
107	0	0	0	0	0	0	0	0	1	1	1	1	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	1	0	0	0	0	1	1	1	1

Table 6 (cont'd)

	SITE:150121														
TRANSECT:	1	1	2	2	3	3	4	4	5	6	7	8	9	10	10
HABITAT:	30	40	10	50	30	50	30	50	50	60	50	50	40	50	60
1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
2	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
18	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
19	1	0	1	0	1	0	0	0	0	1	0	1	1	1	1
20	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0
21	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
22	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
29	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
31	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0

Table 6 (cont'd)

SITE: 150121															
TRANSECT:	1	1	2	2	3	3	4	4	5	6	7	8	9	10	10
HABITAT:	30	40	10	50	30	50	30	50	50	60	50	50	40	50	60
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
41	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
42	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
47	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
52	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
53	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
54	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0
55	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
65	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
79	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0

Table 6 (cont'd)

SITE:150121															
TRANSECT:	1	1	2	2	3	3	4	4	5	6	7	8	9	10	10
HABITAT:	30	40	10	50	30	50	30	50	50	60	50	50	40	50	60
80	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0
81	0	1	0	1	0	0	0	0	1	1	1	1	1	0	1
82	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1
83	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
84	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	1	1	1	0	1	0	1	0	1	1	0	1	0	0	0
92	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0
93	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
95	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
98	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
99	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	1	0	0	0	1	0	0	1	0	0	1	1	0	0
104	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1
105	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
106	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
107	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0

Table 6 (cont'd)

SITE: 160073											
TRANSECT:	1	2	3	4	5	6	7	8	8	9	10
HABITAT:	30	50	40	40	50	30	40	40	50	40	40
1	0	1	0	0	1	0	1	0	0	0	0
2	0	0	0	0	1	1	1	1	1	0	0
3	0	0	0	0	0	1	0	0	0	0	0
4	0	0	0	0	1	1	0	0	0	0	0
5	0	0	0	0	1	0	1	0	0	1	1
6	0	1	1	0	1	0	1	0	1	0	1
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	1	0	0	0	0	0	0
11	1	0	1	0	1	0	1	1	0	0	1
12	0	1	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	1	1	0	0	0	1	1	1	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0
19	0	1	1	0	1	1	0	1	0	1	0
20	0	0	0	0	1	1	0	1	0	0	0
21	1	1	0	0	1	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0
24	0	1	0	0	0	0	1	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	1	0	0	1	1
31	0	0	1	1	0	1	1	1	1	1	1
32	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	1	0	0	1	1
36	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	1	0	0	1

Table 6 (cont'd)

SITE: 160073											
TRANSECT:	1	2	3	4	5	6	7	8	8	9	10
HABITAT:	30	50	40	40	50	30	40	40	50	40	40
39	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0
50	1	0	0	0	0	0	0	0	0	0	0
51	0	0	1	0	1	0	0	1	0	0	1
52	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0
54	0	0	1	1	0	0	0	0	0	1	1
55	0	0	1	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	1
59	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0
71	0	0	1	0	0	0	0	0	0	1	0
72	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	1	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0
76	0	0	1	1	0	1	1	1	1	1	0
77	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0
79	0	1	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 160073											
TRANSECT:	1	2	3	4	5	6	7	8	8	9	10
HABITAT:	30	50	40	40	50	30	40	40	50	40	40
84	1	0	0	0	0	0	0	0	0	0	0
85	1	0	1	0	0	1	1	1	0	1	1
86	0	0	0	0	0	0	0	0	0	0	0
87	1	1	1	1	1	1	1	1	1	1	1
88	0	0	0	0	0	0	0	0	0	0	0
89	1	0	0	0	0	0	0	0	0	0	1
90	0	0	0	0	1	0	1	1	1	0	0
91	0	0	1	0	0	0	0	1	0	0	0
92	1	0	0	1	1	1	1	0	0	1	0
93	0	0	0	0	0	0	0	0	0	1	0
94	0	0	0	0	0	0	0	0	0	0	0
95	0	0	1	1	1	0	0	0	0	0	1
96	0	1	0	1	0	0	0	1	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	1	0	0	0	0	0
99	0	0	1	0	1	0	1	1	1	0	1
100	1	1	1	1	1	1	1	1	1	1	1
101	1	0	1	0	0	0	0	0	0	1	0
102	1	0	0	0	0	0	0	0	1	1	0
103	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	1	1	1	1	1	1
105	1	0	1	0	1	0	1	1	0	1	0
106	1	1	0	1	1	0	0	0	0	0	0
107	0	1	0	1	0	1	1	1	0	1	1
108	0	0	0	1	1	1	1	1	1	1	1
109	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 160102															
TRANSECT:	1	2	3	4	5	5	5	6	6	7	7	8	9	10	10
HABITAT:	50	50	70	70	30	40	50	40	50	50	60	60	50	30	50
1	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0
2	0	0	1	1	0	0	0	0	0	1	1	1	0	1	0
3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
7	0	0	0	1	0	0	1	0	0	0	1	0	1	1	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	1	1	0	1	0	0	0	1	1	1	1	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
19	1	1	0	0	1	0	0	1	1	0	1	0	0	0	1
20	0	0	1	1	0	0	0	0	0	0	1	1	1	0	0
21	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	1	1	0	0	0	1	1	0	0	0	0	0	0	1	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
35	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE: 160102															
TRANSECT:	1	2	3	4	5	5	5	6	6	7	7	8	9	10	10
HABITAT:	50	50	70	70	30	40	50	40	50	50	60	60	50	30	50
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	1	1	0	1	1	0	0	0	0	0	0	1	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
54	1	0	0	1	0	1	0	0	1	0	1	1	1	0	1
55	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0
80	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
81	1	1	1	1	0	1	0	1	1	0	0	1	1	0	1
82	1	0	1	0	0	1	1	1	1	1	0	1	1	0	0
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	1	1	1	0	0	0	0	1	0	1	1	0	1	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1
87	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
88	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

	SITE:160102														
TRANSECT:	1	2	3	4	5	5	5	6	6	7	7	8	9	10	10
HABITAT:	50	50	70	70	30	40	50	40	50	50	60	60	50	30	50
89	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	1	1	1	1	0	1	0	0	1	0	1	1	1	1	1
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
94	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
95	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
99	1	0	1	1	0	1	1	0	1	1	0	1	1	1	0
100	0	0	0	1	0	0	1	0	0	0	0	1	1	0	0
101	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0
104	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0
105	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0
106	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1

Table 6 (cont'd)

SITE:160113											
TRANSECT:	1	2	3	4	5	6	7	8	9	9	10
HABITAT:	70	30	30	30	40	30	20	60	30	50	20
1	1	0	0	0	0	0	0	0	1	1	0
2	1	0	0	0	0	0	0	0	0	1	1
3	1	0	0	0	0	0	0	0	0	0	0
4	1	0	1	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	1	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	1	0	1	0	0	0	0	0	0	1	1
13	0	0	0	0	0	0	0	0	0	0	1
14	1	1	0	0	0	0	0	1	1	1	0
15	0	0	0	0	0	0	0	0	0	0	0
16	1	0	0	0	0	0	0	1	1	1	0
17	0	0	0	0	0	0	1	0	0	0	0
18	1	0	0	0	0	0	0	0	0	0	0
19	0	1	1	1	0	1	1	0	1	1	1
20	1	0	0	0	0	0	0	1	1	1	0
21	1	1	0	0	0	0	0	0	1	1	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0
24	1	0	0	0	1	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	1	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	1	0	0	0	0	0	0	0
30	0	1	0	0	0	0	0	0	0	0	0
31	0	1	0	0	1	1	0	1	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0
34	0	1	0	0	0	0	0	0	0	0	0
35	0	1	0	0	0	0	0	1	0	0	1
36	0	0	0	0	0	1	0	1	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0
38	1	0	0	0	0	1	0	1	0	0	0
39	0	1	1	0	0	1	0	0	0	0	1
40	0	0	0	0	0	0	0	0	0	0	0
41	1	0	0	0	0	1	0	1	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE:160113											
TRANSECT:	1	2	3	4	5	6	7	8	9	9	10
HABITAT:	70	30	30	30	40	30	20	60	30	50	20
47	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	1	0	0
51	1	0	0	0	0	0	0	1	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	1	1	1	0	0	0	0
54	1	1	0	0	1	1	0	1	0	0	0
55	0	1	0	0	0	1	0	0	0	1	0
56	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	1
58	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	1	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	1	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	1	0	0	0	0	0	0	0
69	0	0	0	1	0	0	0	0	0	0	0
70	0	0	0	0	1	0	0	0	0	0	0
71	1	0	0	0	0	0	0	0	1	0	0
72	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	1
77	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0
79	0	1	1	1	1	1	1	1	0	1	1
80	0	0	0	0	0	0	0	0	0	0	1
81	1	1	0	0	1	1	0	1	1	1	0
82	0	0	0	0	0	0	0	1	1	0	1
83	0	0	0	0	0	0	0	0	0	0	0
84	1	1	0	0	0	1	0	0	1	1	1
85	0	0	0	0	0	0	0	0	0	0	0
86	1	1	1	0	1	0	0	1	1	1	1
87	0	0	0	0	0	0	0	0	0	0	0
88	0	1	0	0	1	0	0	0	0	0	1

Table 6 (cont'd)

SITE:160113											
TRANSECT:	1	2	3	4	5	6	7	8	9	9	10
HABITAT:	70	30	30	30	40	30	20	60	30	50	20
89	0	0	0	0	0	0	0	0	0	0	1
90	0	0	0	0	0	1	0	0	0	1	0
91	0	1	0	1	1	1	1	1	0	0	0
92	0	1	0	0	1	0	0	1	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	1	0	1	0	0	0
95	1	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0
98	1	0	0	0	0	0	0	0	0	0	0
99	1	1	0	1	1	1	0	1	1	1	1
100	1	1	0	0	0	1	0	1	1	1	1
101	1	1	0	0	1	1	0	1	1	1	1
102	0	0	0	0	0	0	0	0	0	0	0
103	1	1	0	0	0	1	0	1	1	0	0
104	0	0	0	0	0	0	0	0	0	0	0
105	1	0	0	0	0	0	0	0	0	0	0
106	0	1	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	1	0	1	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE:160216												
TRANSECT:	1	2	3	4	5	6	7	7	8	8	9	10
HABITAT:	50	50	70	50	50	50	50	60	40	50	50	50
1	1	1	0	1	0	0	0	0	0	0	1	1
2	1	1	1	0	0	0	0	0	0	1	1	1
3	0	0	1	1	0	0	0	0	0	0	1	1
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	1	0	0	0	0	1	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	1	0	0	0	0	0	0
10	1	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	1	0	1	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	1	1	1	1	1	1	1	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	1	0	0
18	0	1	0	0	0	0	1	0	1	1	0	1
19	1	1	1	0	0	1	1	0	0	1	1	1
20	1	1	0	0	0	1	1	1	0	1	1	0
21	1	1	1	0	0	0	0	0	0	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	1	1
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	1	1	1	1	1	1	0	1	0
32	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	1	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0
38	0	1	0	0	1	1	1	1	0	1	0	1
39	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	1	0	0	0	0

Table 6 (cont'd)

SITE: 160216												
TRANSECT:	1	2	3	4	5	6	7	7	8	8	9	10
HABITAT:	50	50	70	50	50	50	50	60	40	50	50	50
44	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	1	0
51	1	0	0	0	1	0	0	0	0	0	1	0
52	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	1	0	0	1	0	1	1	0	0
54	1	1	1	1	0	1	1	1	1	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	1
56	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	1
60	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	1	1
62	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	1	0	0
64	0	0	0	1	1	0	0	0	0	1	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0
66	1	0	0	0	0	0	0	0	0	0	1	1
67	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0
71	1	0	0	0	0	1	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	1	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	1	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0
79	1	1	1	1	1	1	0	1	1	1	1	0
80	0	0	0	0	0	0	0	0	0	0	0	0
81	0	1	1	1	1	1	1	0	1	0	1	1
82	0	1	0	1	1	0	0	0	0	0	1	1
83	0	0	0	0	0	0	0	0	0	0	0	0
84	1	1	1	1	1	1	1	1	1	1	1	1
85	1	0	0	0	0	0	0	0	0	0	0	0

Table 6 (cont'd)

SITE:160216												
TRANSECT:	1	2	3	4	5	6	7	7	8	8	9	10
HABITAT:	50	50	70	50	50	50	50	60	40	50	50	50
86	1	0	1	1	1	1	1	1	0	1	1	1
87	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	1
89	0	0	0	0	1	1	0	0	0	0	1	0
90	0	0	0	0	0	0	0	0	0	0	0	0
91	1	1	0	0	1	0	1	0	1	1	1	0
92	1	1	0	1	1	1	0	0	0	1	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0
94	0	1	0	0	0	1	1	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	1	0	0	0	0	0	0
98	0	0	0	0	1	0	0	0	0	0	1	1
99	1	1	1	1	1	1	1	1	1	1	1	1
100	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0
103	1	1	0	0	0	0	1	1	1	0	0	1
104	0	0	0	0	1	1	0	0	0	1	0	0
105	1	1	1	0	0	0	1	0	0	0	0	0
106	1	1	0	1	1	1	0	1	1	1	1	0
107	0	0	0	0	0	0	1	0	1	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	1	0	0	0

Table 6 (cont'd)

SITE: 160223																
TRANSECT:	1	1	2	3	3	4	5	5	6	6	7	7	8	8	9	10
HABITAT:	40	50	50	40	50	50	10	40	40	50	40	50	40	50	50	50
1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	0
2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
18	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0
19	1	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0
20	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0
21	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
31	1	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	1	0	0	0	0	1	0	0	0	1	0	0	1	1	1	1

Table 6 (cont'd)

SITE: 160223																
TRANSECT:	1	1	2	3	3	4	5	5	6	6	7	7	8	8	9	10
HABITAT:	40	50	50	40	50	50	10	40	40	50	40	50	40	50	50	50
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
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44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1

Table 6 (cont'd)

SITE:160223																
TRANSECT:	1	1	2	3	3	4	5	5	6	6	7	7	8	8	9	10
HABITAT:	40	50	50	40	50	50	10	40	40	50	40	50	40	50	50	50
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81	0	1	0	1	1	0	0	0	0	0	1	0	0	1	1	1
82	0	0	1	0	0	1	0	1	0	0	0	0	0	1	1	1
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84	1	0	1	0	1	1	0	1	1	1	0	0	0	1	1	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	1	1	1	0	1	1	0	1	1	1	0	1	0	1	1	1
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90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	1	1	1	0	0	1	0	0	1	0	0	1	1	1
92	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
94	0	0	1	0	1	1	0	0	0	0	0	1	0	0	1	0
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96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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99	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
102	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	1	0	0	0	1	1	0	0	1	0	1	0	0	0	1	1
104	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0
105	0	1	1	0	0	1	0	1	1	0	0	0	0	1	1	0
106	1	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Table 6 (cont'd)

SITE: 160234											
TRANSECT:	1	1	2	3	4	5	6	7	8	9	10
HABITAT:	40	50	30	40	50	50	40	50	40	40	40
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3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	1	1	1	0	1
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	1	1	0
10	0	0	0	0	0	0	0	0	1	0	1
11	0	0	0	0	1	0	0	0	0	0	0
12	0	0	1	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	1	1	1	1	1	0	1	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0
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17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	1	1	0	1	0	0	0	0
19	1	0	1	0	0	0	0	0	1	1	1
20	1	1	1	0	0	0	0	0	1	0	1
21	1	0	0	0	0	0	0	0	0	1	1
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	1	0	0	0	0	1	1	1
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0
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31	0	0	1	1	1	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	1	1	1	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0
37	0	1	0	0	0	0	0	0	0	0	0
38	0	0	0	1	0	0	0	0	0	0	1

Table 6 (cont'd)

	SITE:160234										
TRANSECT:	1	1	2	3	4	5	6	7	8	9	10
HABITAT:	40	50	30	40	50	50	40	50	40	40	40
39	0	0	0	0	0	0	0	0	0	0	0
40	1	1	1	1	1	1	1	1	0	0	1
41	0	1	1	0	1	1	1	1	0	0	1
42	0	0	0	0	0	0	0	0	0	0	1
43	0	0	0	0	0	0	0	0	1	0	0
44	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0
46	0	0	1	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0
49	1	1	1	1	1	1	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	1	0
51	0	0	1	0	1	1	1	1	0	0	1
52	0	0	0	0	0	0	0	0	0	0	0
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54	0	1	0	0	0	0	0	0	1	1	0
55	1	1	1	1	0	0	1	1	1	1	1
56	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0
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65	0	0	0	0	0	0	0	0	0	0	0
66	0	1	1	1	0	0	0	0	0	1	0
67	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0
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73	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	1	0	0
75	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0
79	1	0	0	0	0	0	0	0	0	0	0
80	0	0	1	0	0	1	0	0	0	0	1

Table 6 (cont'd)

SITE: 160234											
TRANSECT:	1	1	2	3	4	5	6	7	8	9	10
HABITAT:	40	50	30	40	50	50	40	50	40	40	40
81	1	1	1	1	1	1	0	1	1	1	1
82	1	0	1	0	0	0	0	1	1	1	1
83	0	0	0	0	0	0	0	0	0	0	0
84	1	1	0	1	0	0	0	0	0	1	1
85	0	0	0	0	0	0	0	0	0	0	0
86	1	1	1	1	1	1	1	1	1	1	1
87	0	0	1	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	1	1	1
91	0	1	1	0	1	0	1	0	0	1	1
92	1	0	0	1	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	1	0	0	0	0	1	0
96	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	1	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0
99	1	1	1	1	1	1	1	1	1	1	1
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101	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	1	1	1	0	0	0	0	0
103	0	0	0	1	0	0	0	0	1	0	1
104	1	1	1	1	1	1	0	1	1	1	1
105	1	0	1	0	1	0	0	0	1	0	1
106	1	0	1	0	1	0	1	1	1	1	1
107	0	0	0	0	0	0	0	0	1	0	1
108	0	0	0	0	0	0	0	0	0	0	0
109	1	0	1	1	1	0	0	1	1	1	1

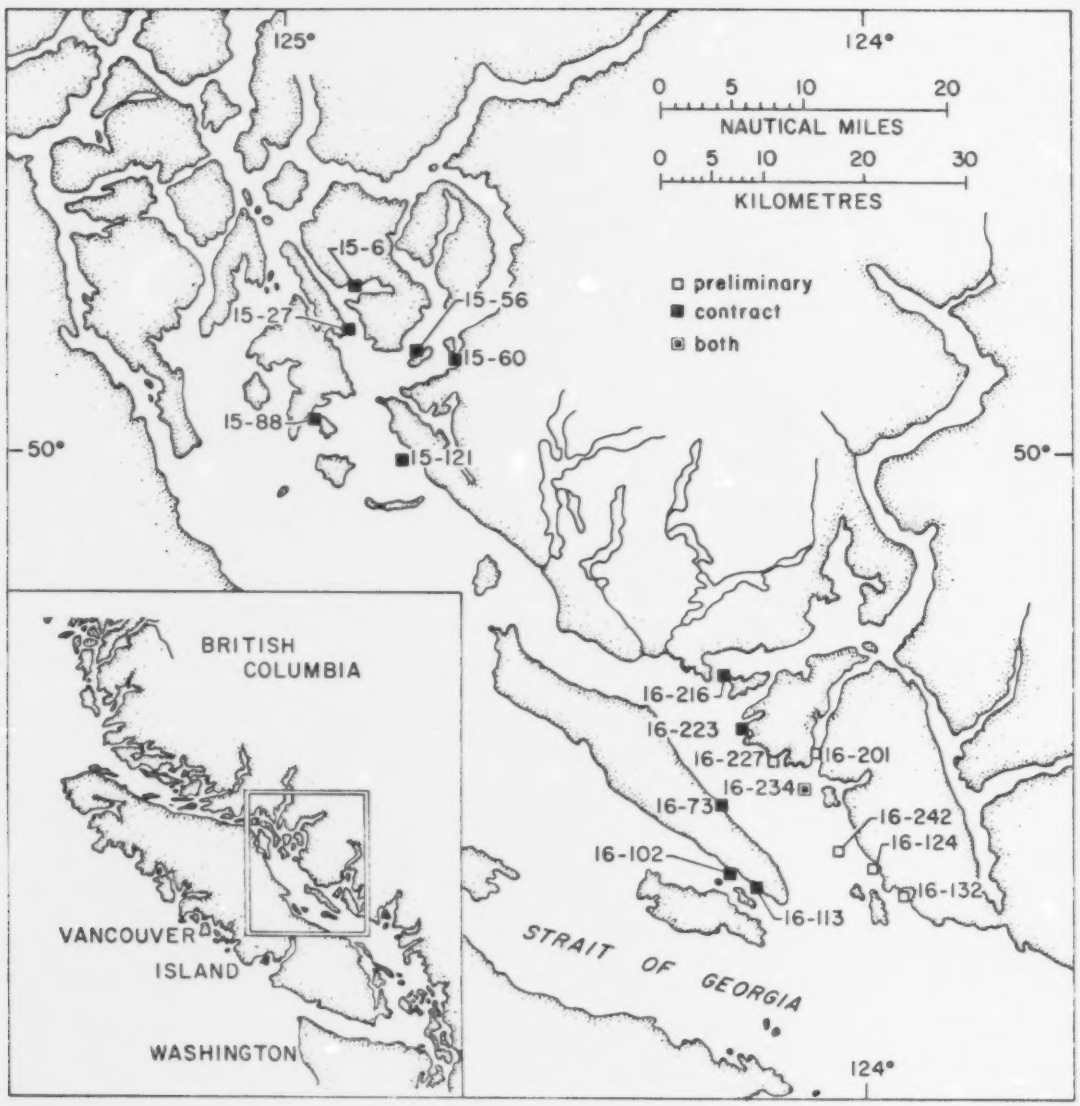
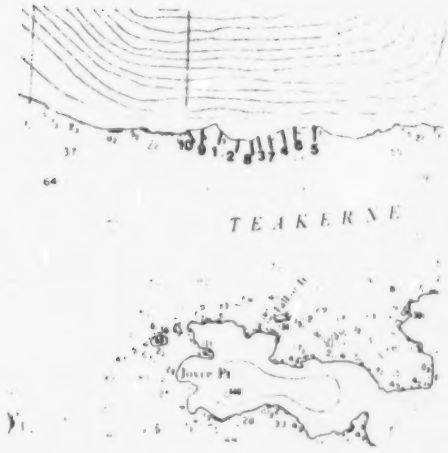


Fig. 1. SCUBA survey sites for the preliminary and contract surveys.

Tenedos Bay
Site No.: 150060
Scale: 1:37,500
Chart No.: 3562

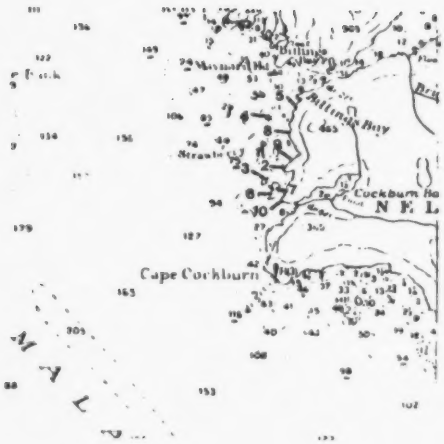
Mink Island
Site No.: 150056
Scale: 1:37,500
Chart No.: 3562

Junction Point
Site No.: 150027
Scale: 1:37,500
Chart No.: 3562



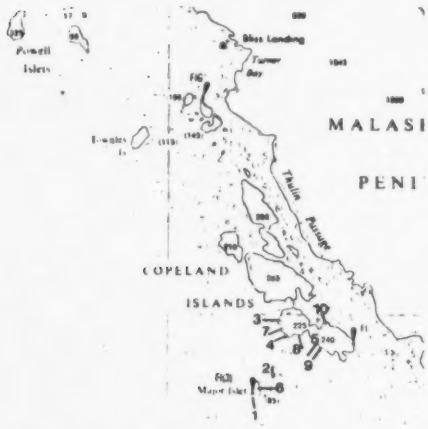
Teakearne Arm
Site No.: 150006
Scale: 1:37,500
Chart No.: 3562

Fig. 2. Dive locations at each survey site for the contract survey.



Stawberry Islets
Site No.: 106223
Scale: 1:77,007
Chart No.: 3590

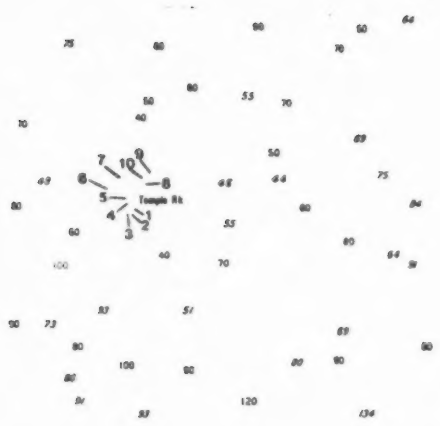
Hardy Island
Site No.: 160216
Scale: 1:76,397
Chart No.: 3591



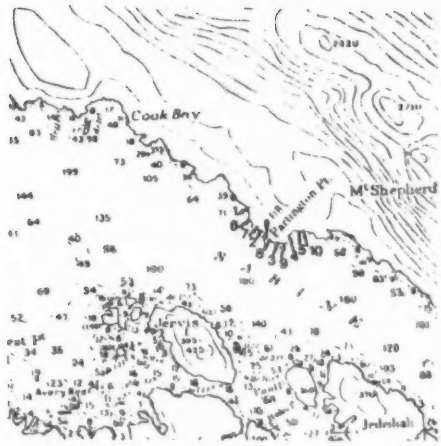
Major and Copeland Islands
Site No.: 150121
Scale: 1:75,000
Chart No.: 3594

Twin Islands
Site No.: 150088
Scale: 1:75,000
Chart No.: 3594

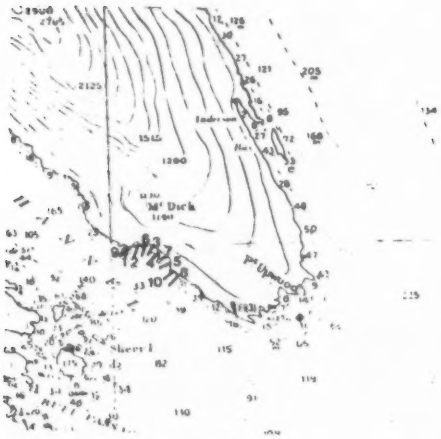
Fig. 2 (cont'd).



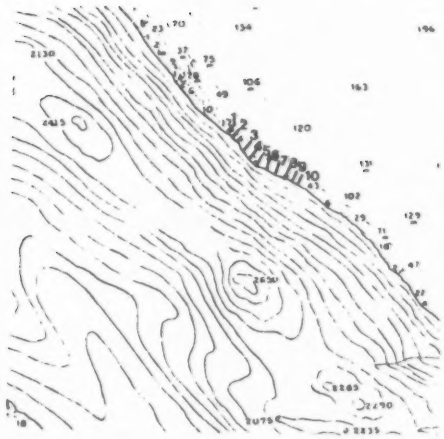
Temple Rock
Site No.: 160234
Scale: 1:12,000
Chart No.: 3535



Partington Point, Texada Island
Site No.: 160102
Scale: 1:77,007
Chart No.: 3590



Texada Island, Southwest Side
Site No.: 160113
Scale: 1:77,007
Chart No.: 3590



Texada Island, Southeast Side
Site No.: 160073
Scale: 1:77,007
Chart No.: 3590

Fig. 2 (cont'd).

APPENDIX 1. Invertebrate species[a] observed during the contract survey. Codes are for cross-reference with Table 6.

Code	Species Name	Common Name
	Porifera	
1	Rhabdicalyptus dawsoni	vase sponge
2	Cliona celata	yellow boring sponge
3	Aphrocallistes vastus	cloud sponge
4	Tetilla arb	tennis ball sponge
5	Tethya aurantia	orange puffball sponge
6	Leucandra heathi	bristly vase sponge
7	Adocia mollis	white encrusting sponge
8	Leucosolenia eleanor	tube sponge
9	Isodictya quatsinoensis	finger sponge
10	Stylissa stipitata	trumpet sponge
11	Haliclonia permollis	encrusting sponge
	Cnidaria	
12	Ptilosarcus gurneyi	orange seapen
13	Virgularia tuberculata	white seapen
14	Balanophyllia elegans	orange cup coral
15	Caryophyllia alaskensis	tan cup coral
16	Metridium senile	plumose anemone
17	Tealia coriacea	buried tealia
18	Tealia crassicornis	painted tealia
19	Pachycerianthus fimbriatus	tube dwelling anemone
20	Cribrinopsis fernaldi	crimson anemone
21	Stomphia didemon	swimming anemone
22	Epizoanthus scotinus	zoanthids
23	Aurelia aurita	moon jellyfish
	Annelida	
24	Serpula vermicularis	calcareous tube worm
25	Eudistylia vancouveri	feather duster worm
26	Tubulanus polymorphus	primitive ribbon worm
27	Tubulanus sexlineatus	lined ribbon worm
	Bryozoa	
28	Heteropora pacifica	false coral
	Brachiopoda	
29	Terebratalia transversa	lampshell

APPENDIX 1 (cont'd)

Code	Species Name	Common Name
	Mollusca	
30	Cryptochiton stellerí	gumboot chiton
31	Tonicella lineata	lined chiton
32	Mopalia sp.	hairy chiton
33	Katharina tunicata	leather chiton
34	Haliotis kamtschatkana	northern abalone
35	Acmaea mitra	whitecap limpet
36	Acmaea testundinalis scutum	plate limpet
37	Crepipatella lingulata	slipper limpet
38	Diodora aspera	keyhole limpet
39	Polinices lewisii	moon snail
40	Margarites lirulatus	lirulate margarite
41	Calliostoma ligatum	blue top snail
42	Oceanebra interfossa	sculptured rock snail
43	Oceanebra lurida	lurid rock snail
44	Searlesia dira	spindle whelk
45	Thais lamellosa	wrinkled dog whelk
46	Mitrella gausapata	wrinkled dove shell
47	Amphissa columbiana	wrinkled amphissa
48	Nassarius mendicus	lean dog whelk
49	Trichotropis cancellata	checkered hairy snail
50	Fusitriton oregonensis	hairy triton
51	Ceratostoma foliata	leafy hornmouth
52	Bittium eschrichtii	threaded bittium
53	Pododesmus macroschisma	rock jingle
54	Hinnites giganteus	rock scallop
55	Chlamys rubida	pink scallop
56	Panope generosa	geoduck
57	Tresus capax	horse clam
58	Entodesma saxicola	ugly clam
59	Dendronotus iris	swimming nudibranch
60	Melibe leonina	hooded nudibranch
61	Octopus dofleini	octopus
62	Mytilus edulis	mussel
	Arthropoda	
63	Balanus nubilus	giant barnacle
64	Balanus sp.	barnacle
65	Costaria sp.	kelp fleas
66	Pandalus danae	coonstrip shrimp
67	Spiruntocans sp.	no common name
68	Cancer productus	red rock crab
69	Cancer magister	dungeness crab
70	Pugettia producta	kelp crab
71	Oregonia gracilis	decorator crab
72	Cryptolithodes sitchensis	turtle crab

APPENDIX 1 (cont'd)

Code	Species Name	Common Name
	Arthropoda	
73	Lopholithodes mandtii	Puget Sound King crab
74	Phyllolithodes papillosus	heart crab
75	Munida quadrispina	squat lobster
76	Pagurus spp.	hermit crab
77	Lithodidae	lithoid crab
	Echinodermata	
78	Pisaster ochraceus	purple star
79	Pisaster brevispinus	pink star
80	Dermasterias imbricata	leather star
81	Henricia leviuscula	blood star
82	Mediaster aequalis	vermillion star
83	Ceramaster patagonicus	cookie star
84	Pteraster tesselatus	slime star
85	Pteraster militaris	wrinkled star
86	Orthasterias koehleri	painted star
87	Hippasteria spinosa	spiny star
88	Luidia foliolata	mud star
89	Crossaster papposus	rose star
90	Stylasterias forreri	long rayed sea star
91	Pycnopodia helianthoides	sunflower star
92	Solaster stimpsoni	striped sunstar
93	Solaster endeca	northern sunstar
94	Solaster dawsoni	morning sunstar
95	Ophiopholis sp.	brittle star
96	Cucumaria miniata	orange sea cucumber
97	Eupentacta quinquesemita	white sea cucumber
98	Psolus chitonoides	pedal sea cucumber
99	Parastichopus californicus	california sea cucumber
100	Strongylocentrotus purpuratus	purple sea urchin
101	Strongylocentrotus franciscanus	red sea urchin
102	Strongylocentrotus droebachiensis	green sea urchin
	Chordata	
103	Corella willmeriana	transparent sea squirt
104	Halocynthia aurantium	sea peach
105	Ascidia paratropa	glassy sea squirt
106	Styela montereyensis	stalked sea squirt
107	Pyura haustor	wrinkled sea squirt
108	Metandrocarpa taylori	orange social sea squirt
109	Cnemidocarpa finmarkiensis	broadbase sea squirt

[a]Taxonomy according to Gotshall and Laurent (1979), Griffith (1975), Harbo (1980), Morris et al. (1980), and Quayle (1978).